

Safety data sheet

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BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from

time to time.

Date / Revised: 19.02.2024 Version: 14.0

Date / Previous version: 08.11.2022 Previous version: 13.0

Product: **PENTANOL MIXTURE**

(ID no. 30036714/SDS_GEN_GB/EN)

Date of print 09.10.2025

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

PENTANOL MIXTURE

Chemical name: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol

REACH registration number: 01-2119492626-27-0000

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Chemical

For the detailed identified uses of the product see appendix of the safety data sheet.

1.3. Details of the supplier of the safety data sheet

Company: BASF SE 67056 Ludwigshafen GERMANY

Contact address: BASF plc

4th and 5th Floors, 2 Stockport Exchange Railway Road, Stockport, SK1 3GG

UNITED KINGDOM

Telephone: +44 161 475 3000

E-mail address: product-safety-uk-and-ireland@basf.com

1.4. Emergency telephone number

International emergency number: Telephone: +49 180 2273-112

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

time to time.

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According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

Flam. Liq. 3 H226 Flammable liquid and vapour.

Acute Tox. 4 (Inhalation - mist) H332 Harmful if inhaled. Skin Corr./Irrit. 2 H315 Causes skin irritation.

Eye Dam./Irrit. 1 H318 Causes serious eye damage. STOT SE 3 H335 May cause respiratory irritation.

For the classifications not written out in full in this section the full text can be found in section 16.

2.2. Label elements

According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

Pictogram:



Signal Word:

Danger

Hazard Statement:

H226 Flammable liquid and vapour. H318 Causes serious eye damage. H315 Causes skin irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

Precautionary Statements (Prevention):

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves and eye protection or face protection.

Precautionary Statements (Response):

P310 Immediately call a POISON CENTER or physician.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

Precautionary Statements (Storage):

P233 Keep container tightly closed.

Precautionary Statements (Disposal):

P501 Dispose of contents and container to hazardous or special waste

collection point.

Labeling of special preparations (GHS):

EUH066: Repeated exposure may cause skin dryness or cracking.

Hazard determining component(s) for labelling: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol

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2.3. Other hazards

According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

See section 12 - Results of PBT and vPvB assessment.

SECTION 3: Composition/Information on Ingredients

3.1. Substances

Chemical nature

To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol (Content (W/W): >= 99 %)

Hazardous ingredients (GHS)

1-pentanol

Content (W/W): >= 60 % - <= 73 % Flam. Liq. 3

CAS Number: 71-41-0 Acute Tox. 4 (Inhalation - vapour)

EC-Number: 200-752-1 Skin Corr./Irrit. 2 INDEX-Number: 603-200-00-1 Eye Dam./Irrit. 1

STOT SE 3 (irr. to respiratory syst.)

Aquatic Chronic 2

H226, H318, H315, H332, H335, H411

2-Methylbutan-1-ol

Content (W/W): >= 25 % - <= 34 % Flam. Liq. 3

CAS Number: 137-32-6 Acute Tox. 4 (Inhalation - vapour)

EC-Number: 205-289-9 Skin Corr./Irrit. 2 INDEX-Number: 603-006-00-7 Eye Dam./Irrit. 1

> STOT SE 3 (irr. to respiratory syst.) H226, H318, H315, H332, H335

EUH066

3-Methylbutan-1-ol

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Content (W/W): >= 0 % - <= 5 % Flam. Liq. 3

CAS Number: 123-51-3 Acute Tox. 4 (Inhalation - vapour)

EC-Number: 204-633-5 Skin Corr./Irrit. 2 Eve Dam./Irrit. 1

> STOT SE 3 (irr. to respiratory syst.) H226, H318, H315, H332, H335

EUH066

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

3.2. Mixtures

Not applicable

SECTION 4: First-Aid Measures

4.1. Description of first aid measures

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:

Wash thoroughly with soap and water

On contact with eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and / or effects are not known so far

Hazards: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11. (Further) symptoms and / or effects are not known so far

4.3. Indication of any immediate medical attention and special treatment needed

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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SECTION 5: Fire-Fighting Measures

5.1. Extinguishing media

Suitable extinguishing media:

dry powder, water spray, carbon dioxide, foam

Unsuitable extinguishing media for safety reasons:

water jet

Additional information:

Use extinguishing measures to suit surroundings.

5.2. Special hazards arising from the substance or mixture

Advice: Flammable liquid Cool endangered containers with water-spray. See SDS section 7 - Handling and storage.

5.3. Advice for fire-fighters

Special protective equipment:

Wear a self-contained breathing apparatus. Special protective equipment for firefighters

Further information:

Evacuate area of all unnecessary personnel. Fight fire from maximum distance.

Extend fire extinguishing measures to the surroundings. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

SECTION 6: Accidental Release Measures

High risk of slipping due to leakage/spillage of product.

Release of substance/product can cause fire or explosion. Shut off or stop source of leak. Shut off or stop released substance/product under safe conditions.

Pack in tightly closed containers for disposal.

6.1. Personal precautions, protective equipment and emergency procedures

Handle in accordance with good industrial hygiene and safety practice.

Avoid all sources of ignition: heat, sparks, open flame. Use antistatic tools.

6.2. Environmental precautions

Discharge into the environment must be avoided.

6.3. Methods and material for containment and cleaning up

Pick up with suitable appliance and dispose of. Spills should be contained, solidified, and placed in suitable containers for disposal. Dispose of absorbed material in accordance with regulations.

6.4. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

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SECTION 7: Handling and Storage

7.1. Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:

Avoid all sources of ignition: heat, sparks, open flame. Ground all transfer equipment properly to prevent electrostatic discharge.

7.2. Conditions for safe storage, including any incompatibilities

Further information on storage conditions: Containers should be stored tightly sealed in a dry place.

7.3. Specific end use(s)

See exposure scenario(s) in the attachment to this safety data sheet.

SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

Components with occupational exposure limits

123-51-3: 3-Methylbutan-1-ol

TWA value 366 mg/m3; 100 ppm (WEL/EH 40 (UK))

STEL value 37 mg/m3; 10 ppm (OEL (EU))

indicative

TWA value 18 mg/m3; 5 ppm (OEL (EU))

indicative

STEL value 458 mg/m3; 125 ppm (WEL/EH 40 (UK))

Ceiling limit value/factor: 15 min

PNEC

freshwater: 0.12 mg/l

marine water: 0.012 mg/l

intermittent release: 1.2 mg/l

sediment (freshwater): 0.496 mg/kg

sediment (marine water): 0.0496 mg/kg

soil: 1.068 mg/kg

STP: 37 mg/l

time to time.

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DNEL

worker:

Long-term exposure - local effects, Inhalation: 73.16 mg/m3

worker:

Short-term exposure - local effects, Inhalation: 292 mg/m3

consumer:

Long-term exposure - local effects, Inhalation: 13 mg/m3

consumer:

Short-term exposure - local effects, Inhalation: 218 mg/m3

consumer:

Long-term exposure- systemic effects, oral: 12.5 mg/kg

8.2. Exposure controls

Personal protective equipment

Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Gas filter for gases/vapours of organic compounds (boiling point >65 °C, e. g. EN 14387 Type A)

Hand protection:

Chemical resistant protective gloves (EN ISO 374-1)

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1):

nitrile rubber (NBR) - 0.4 mm coating thickness

Manufacturer's directions for use should be observed because of great diversity of types. Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

Eye protection:

Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures

Avoid inhalation of vapour. Avoid contact with the skin, eyes and clothing. Wearing of closed work clothing is required additionally to the stated personal protection equipment.

Environmental exposure controls

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All appropriate measures must be taken to prevent the release of this product to the environment and to limit the dispersion of any release when it occurs. Suitable risk management measures should be in place.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Form: liquid
Colour: colourless
Odour: sweetish

Odour threshold:

not determined

pH value: 7.3 (internal method)

(25 °C)

glass transition temperature: approx. -138 °C (measured)
Boiling point: 134.3 °C (measured)

(1,013.25 hPa)

Flash point: 46 °C (ISO 13736, closed cup)

Evaporation rate:

Value can be approximated from Henry's Law Constant or vapor

pressure.

Flammability: Flammable. (derived from flash point)

Lower explosion limit: 1.4 %(V) (air)

(45.1 °C)

The lower explosion point of the substance/mixture has been determined. The explosion point describes the temperature of a flammable liquid at which the

concentration of the saturated vapour mixed with air equals the lower

explosion limit.

Upper explosion limit:

For liquids not relevant for

classification and labelling.

Ignition temperature: 300 °C (DIN 51794)

Vapour pressure: 4.14 hPa (OECD Guideline 104)

(20 °C) static

Density: 0.8155 g/cm3 (other)

(20 °C)

Relative density: 0.8155

(20 °C)

Relative vapour density (air):> 1 (estimated)

(20 °C)

Heavier than air.

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Solubility in water: (other)

22.6 g/l

(25 °C)

Solubility (qualitative) solvent(s): organic solvents

soluble

Partitioning coefficient n-octanol/water (log Kow): 1.29 - 1.51 (other)

By analogy with a product of similar

composition

Information on: 1-pentanol

Partitioning coefficient n-octanol/water (log Kow):

(measured)

(25 °C)

Literature data.

Information on: 2-Methylbutan-1-ol

Partitioning coefficient n-octanol/water (log Kow): 1.29 (measured)

Literature data.

Information on: 3-Methylbutan-1-ol

Partitioning coefficient n-octanol/water (log Kow): 1.35 (measured)

(23 °C; pH value: approx. 6.5)

Self ignition: not self-igniting Test type: Spontaneous self-

ignition at room-temperature.

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

Viscosity, dynamic: 4.39 mPa.s

(20 °C)

5.38 mm2/s Viscosity, kinematic: (measured)

(20 °C)

Explosion hazard: Based on the chemical structure

there is no indication of explosive

properties.

Fire promoting properties: Based on its structural properties (other)

the product is not classified as

oxidizing.

9.2. Other information

Self heating ability: not applicable, the product is a liquid

SADT: Not a substance/mixture liable to self-decomposition according to

GHS.

pKA:

not applicable, The substance does

not dissociate.

Adsorption/water - soil: KOC: <= 6.33; log KOC: <= 0.8 (calculated)

Surface tension:

Based on chemical structure, surface

activity is not to be expected.

Grain size distribution: Test substance The substance / product is marketed or

used in a non solid or granular form.

Molar mass: 88.15 g/mol

time to time.

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SECTION 10: Stability and Reactivity

10.1. Reactivity

When heated can give off ignitable vapours.

Corrosion to metals: Corrosive effects to metal are not anticipated.

Formation of Remarks: Forms no flammable gases in the

flammable gases: presence of water.

10.2. Chemical stability

The product is stable if stored and handled as prescribed/indicated.

10.3. Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated.

10.4. Conditions to avoid

No special precautions other than good housekeeping of chemicals.

10.5. Incompatible materials

Substances to avoid: strong oxidizing agents

10.6. Hazardous decomposition products

Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

SECTION 11: Toxicological Information

11.1. Information on toxicological effects

Acute toxicity

Assessment of acute toxicity:

Of low toxicity after short-term skin contact. Of low toxicity after single ingestion. Virtually nontoxic by inhalation. The European Union (EU) has classified this substance as 'harmful' after inhalation.

Experimental/calculated data:

LD50 rat (oral): 2,690 mg/kg (other)

LC50 rat (by inhalation): > 14 mg/l 6 h (other)

The European Union (EU) has classified this substance as 'harmful'. An aerosol was tested.

LD50 rabbit (dermal): 3,662 mg/kg (other)

Irritation

Assessment of irritating effects:

May cause severe damage to the eyes. Skin contact causes irritation.

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Experimental/calculated data:

Skin corrosion/irritation

rabbit: Irritant. (FHSA Guideline)

The product has not been tested. The statement has been derived from the properties of the individual components.

Skin corrosion/irritation

rabbit: Irritant. (BASF-Test)

The product has not been tested. The statement has been derived from the properties of the individual components.

Serious eye damage/irritation

rabbit: irreversible damage (BASF-Test)

The product has not been tested. The statement has been derived from the properties of the individual components.

Respiratory/Skin sensitization

Assessment of sensitization:

The substance did not cause skin sensitization in humans.

Experimental/calculated data:

Human Maximization Test human: Non-sensitizing. (Human patch test)

The product has not been tested. The statement has been derived from the properties of the individual components.

Germ cell mutagenicity

Assessment of mutagenicity:

No mutagenic effect was found in various tests with bacteria and mammalian cell culture.

Carcinogenicity

Assessment of carcinogenicity:

Study scientifically not justified.

Reproductive toxicity

Assessment of reproduction toxicity:

The results of animal studies gave no indication of a fertility impairing effect. The results were determined in a Screening test (OECD 421/422).

Developmental toxicity

Assessment of teratogenicity:

No indications of a developmental toxic / teratogenic effect were seen in animal studies. The product has not been tested. The statement has been derived from the properties of the individual components.

time to time.

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Specific target organ toxicity (single exposure)

Assessment of STOT single:

Causes temporary irritation of the respiratory tract.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

No adverse effects were observed after repeated oral exposure in animal studies. The product has not been tested. The statement has been derived from the properties of the individual components.

Aspiration hazard

not applicable

SECTION 12: Ecological Information

12.1. Toxicity

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Toxicity to fish:

LC50 (96 h) 530 mg/l, Brachydanio rerio (OECD 203; ISO 7346; 84/449/EWG, C.1, static) Nominal concentration. The product has not been tested. The statement has been derived from the properties of the individual components.

LC50 (96 h) 700 mg/l, Salmo gairdneri, syn. O. mykiss (OECD 203; ISO 7346; 84/449/EWG, C.1, static)

Nominal concentration. The product has not been tested. The statement has been derived from the properties of the individual components.

LC50 (96 h) > 120 mg/l, Brachydanio rerio (OECD 203; ISO 7346; 92/69/EWG, C.1, semistatic) Limit concentration test only (LIMIT test). No effects at the highest test concentration. Nominal concentration. The product has not been tested. The statement has been derived from the properties of the individual components.

Aquatic invertebrates:

EC50 (48 h) > 120 mg/l, Daphnia magna (OECD Guideline 202, part 1, static) Nominal values (confirmed by concentration control analytics) Limit concentration test only (LIMIT test).

Aquatic plants:

EC50 (72 h) > 320 mg/l (growth rate), Pseudokirchneriella subcapitata (OECD Guideline 201, static) Nominal values (confirmed by concentration control analytics) No effects at the highest test concentration.

time to time.

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Microorganisms/Effect on activated sludge:

EC10 (180 min) 370 mg/l, activated sludge, domestic (OECD Guideline 209, aerobic)

The details of the toxic effect relate to the nominal concentration.

Chronic toxicity to fish:

No data available regarding toxicity to fish.

Chronic toxicity to aquatic invertebrates:

No data available regarding toxicity to daphnids.

Assessment of terrestrial toxicity:

Toxic effects have been observed in studies with soil living organisms.

Soil living organisms:

No observed effect concentration (56 d) 106.75 mg/kg, Eisenia foetida (OECD Guideline 222, artificial soil)

The product has not been tested. The statement has been derived from the properties of the individual components.

Terrestrial plants:

No data available.

Other terrestrial non-mammals:

No data available.

12.2. Persistence and degradability

Assessment biodegradation and elimination (H2O):

Readily biodegradable (according to OECD criteria).

Elimination information:

100 % TIC of the ThIC (18 d) (OECD Guideline 310) (aerobic, activated sludge, domestic)

Assessment of stability in water:

According to structural properties, hydrolysis is not expected/probable.

Information on Stability in Water (Hydrolysis):

No data available.

12.3. Bioaccumulative potential

Assessment bioaccumulation potential:

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

Bioaccumulation potential:

No data available.

12.4. Mobility in soil

Assessment transport between environmental compartments:

time to time.

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Volatility: The substance will slowly evaporate into the atmosphere from the water surface. Adsorption in soil: Adsorption to solid soil phase is not expected.

12.5. Results of PBT and vPvB assessment

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not fulfill the criteria for PBT (Persistent/bioaccumulative/toxic) and vPvB (very persistent/very bioaccumulative). Self classification

12.6. Other adverse effects

The substance is not listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

12.7. Additional information

Adsorbable organically-bound halogen (AOX):

This product contains no organically-bound halogen.

Other ecotoxicological advice:

Do not discharge product into the environment without control.

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Must be disposed of or incinerated in accordance with local regulations.

The UK Environmental Protection (Duty of Care) Regulations (EP) and amendments should be noted (United Kingdom).

This product and any uncleaned containers must be disposed of as hazardous waste in accordance with the 2005 Hazardous Waste Regulations and amendments (United Kingdom)

Contaminated packaging:

Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

SECTION 14: Transport Information

Land transport

ADR

UN number or ID number: UN1105

UN proper shipping name: PENTANOLS MIXTURE

Transport hazard class(es): 3

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Packing group: III Environmental hazards: no

Special precautions for Tunnel code: D/E

user:

RID

UN number or ID number: UN1105

UN proper shipping name: PENTANOLS MIXTURE

Transport hazard class(es): 3
Packing group: III
Environmental hazards: no

Special precautions for None known

user:

Inland waterway transport

ADN

UN number or ID number: UN1105

UN proper shipping name: PENTANOLS MIXTURE

Transport hazard class(es): 3
Packing group: III
Environmental hazards: no

Special precautions for None known

user:

Transport in inland waterway vessel

Not evaluated

Sea transport

IMDG

UN number or ID number: UN 1105

UN proper shipping name: PENTANOLS MIXTURE

Transport hazard class(es): 3
Packing group: III
Environmental hazards: no

Marine pollutant: NO

Special precautions for

user:

Air transport

IATA/ICAO

UN number or ID number: UN 1105

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UN proper shipping name: PENTANOLS MIXTURE

Transport hazard class(es): 3
Packing group: III

Environmental hazards: No Mark as dangerous for the environment is needed

Special precautions for None known

user:

14.1. UN number or ID number

See corresponding entries for "UN number or ID number" for the respective regulations in the tables above.

14.2. UN proper shipping name

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

14.3. Transport hazard class(es)

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

14.4. Packing group

See corresponding entries for "Packing group" for the respective regulations in the tables above.

14.5. Environmental hazards

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

14.6. Special precautions for user

See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

14.7. Maritime transport in bulk according to IMO instruments

Regulation: IBC-Code

Product name: Amyl alcohol, primary

Pollution category: Z Ship Type: 3

Further information

This product is subject to the most recent edition of "The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations" and their amendments (United Kingdom).

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SECTION 15: Regulatory Information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Directive 2012/18/EU - Control of Major Accident Hazards involving dangerous substances (EU):

List entry in regulation: P5a List entry in regulation: P5b List entry in regulation: P5c

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

The data should be considered when making any assessment under the Control of Substances Hazardous to Health Regulations (COSHH), and related guidance, for example, 'COSHH Essentials' (United Kingdom).

This product may be subject to the Control of Major Accident Hazards Regulations (COMAH), and amendments if specific threshold tonnages are exceeded (United Kingdom).

15.2. Chemical Safety Assessment

Chemical Safety Assessment performed

SECTION 16: Other Information

Assessment of the hazard classes according to UN GHS criteria (most recent version)

Flam. Liq. 3

STOT SE 3 (irritating to respiratory system)

Acute Tox. 4 (Inhalation - mist)

Acute Tox. 5 (oral) Acute Tox. 5 (dermal) Eye Dam./Irrit. 1 Skin Corr./Irrit. 2

Full text of the classifications, including the hazard classes and the hazard statements, if mentioned

in section 2 or 3:

Flam. Liq. Flammable liquids Acute Tox. Acute toxicity

Skin Corr./Irrit. Skin corrosion/irritation

Eye Dam./Irrit. Serious eye damage/eye irritation

STOT SE Specific target organ toxicity — single exposure Aquatic Chronic Hazardous to the aquatic environment - chronic

H226 Flammable liquid and vapour.
H318 Causes serious eye damage.
H315 Causes skin irritation.

H332 Harmful if inhaled.

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BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from

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H335 May cause respiratory irritation.

H411 Toxic to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

Abbreviations

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road. ADN = The European Agreement concerning the International Carriage of Dangerous Goods by Inland waterways. ATE = Acute Toxicity Estimates. CAO = Cargo Aircraft Only. CAS = Chemical Abstract Service. CLP = Classification, Labelling and Packaging of substances and mixtures. DIN = German national organization for standardization. DNEL = Derived No Effect Level. EC50 = Effective concentration median for 50% of the population. EC = European Community. EN = European Standards. IARC = International Agency for Research on Cancer. IATA = International Air Transport Association. IBC-Code = Intermediate Bulk Container code. IMDG = International Maritime Dangerous Goods Code. ISO = International Organization for Standardization. STEL = Short-Term Exposure Limit. LC50 = Lethal concentration median for 50% of the population. LD50 = Lethal dose median for 50% of the population. TLV = Threshold Limit Value. MARPOL = The International Convention for the Prevention of Pollution from Ships. NEN = Dutch Norm. NOEC = No Observed Effect Concentration. OEL = Occupational Exposure Limit. OECD = Organization for Economic Cooperation and Development. PBT = Persistent, Bioaccumulative and Toxic. PNEC = Predicted No Effect Level. PPM = Parts per million. RID = The European Agreement concerning the International Carriage of Dangerous Goods by Rail. TWA = Time Weight Average. UN-number = UN number at transport. vPvB = very Persistent and very Bioaccumulative.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

Vertical lines in the left hand margin indicate an amendment from the previous version.

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Annex: Exposure Scenarios

Index

1. Use in Agrochemicals, (consumer use)

ERC8a, ERC8d; PC12, PC27

2. Use in Coatings, (consumer use)

ERC8a, ERC8d; PC1, PC4, PC9a, PC9c, PC15, PC18, PC23, PC24, PC31

3. Use as a Process chemical, (use in industrial settings)

ERC4; PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC15

4. Use in Cleaning Agents, (use in industrial settings)

ERC4; PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC15

5. Use in Coatings, (use in industrial settings)

ERC4; PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC15

6. Use as an intermediate

ERC6a; PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC15

7. Use in Agrochemicals, (use in professional settings)

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8. Use in Cleaning Agents, (use in professional settings)

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9. Use in Coatings, (use in professional settings)

ERC8a, ERC8d; PROC5, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC19

10.Use in laboratories, (use in professional settings)

ERC8a; PROC15

11. Formulation & (re)packing of substances and mixtures

ERC2; PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC15

12. Manufacture of substance

ERC1; PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC15

13. Use in Cleaning Agents, (consumer use)

ERC8a, ERC8d; PC3, PC4, PC9c, PC24, PC32, PC35, PC38

* * * * * * * * * * * * * * * *

1. Short title of exposure scenario

Use in Agrochemicals, (consumer use) ERC8a, ERC8d; PC12, PC27

time to time.

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Control of exposure and risk management measures

| Contributing exposure scenario | |
|--------------------------------|--|
| Use descriptors covered | ERC8a: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed. |
| Operational conditions | |

| Contributing exposure scenario | |
|--------------------------------|---|
| Use descriptors covered | ERC8d: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed. |
| Operational conditions | • |

| Contributing exposure scenario | | |
|--|---|--|
| Use descriptors covered | PC12: Fertilizers. | |
| Operational conditions | | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 10 % | |
| Vapour pressure of the substance during use | 414 Pa | |
| Duration and Frequency of activity | 365 uses per year | |
| body weight | 65 kg | |
| Uptake fraction oral | 100 % | |
| | Amount ingested 0.3 g Relevant for oral exposure estimates | |
| Exposure estimate and reference to its source | | |
| Assessment method | EASY TRA v4.2, ConsExpo v4.1, Oral model: direct intake, Uptake model: Uptake fraction | |
| | Consumer - oral, long-term - systemic | |
| Exposure estimate | 0.4615 mg/kg bw/day | |
| Risk Characterization Ratio (RCR) | 0.036923 | |
| | The calculation is based on the internal chronic dose. | |
| Guidance to Downstream Users | | |
| For scaling see: http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp | | |

| Contributing exposure scenario | |
|--------------------------------|----------------------------------|
| Use descriptors covered | PC27: Plant Protection products. |

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| Operational conditions | |
|---|---|
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 10 % |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | 365 uses per year |
| body weight | 65 kg |
| Uptake fraction oral | 100 % |
| | Amount ingested 0.3 g Relevant for oral exposure estimates |
| Exposure estimate and reference to its source | |
| Assessment method | EASY TRA v4.2, ConsExpo v4.1, Oral model: direct intake, Uptake model: Uptake fraction |
| | Consumer - oral, long-term - systemic |
| Exposure estimate | 0.4615 mg/kg bw/day |
| Risk Characterization Ratio (RCR) | 0.036923 |
| | The calculation is based on the internal chronic dose. |
| Guidance to Downstream Users | |
| For scaling see: http://www.rivm.nl/en/l | nealthanddisease/productsafety/ConsExpo.jsp |

* * * * * * * * * * * * * * *

2. Short title of exposure scenario

Use in Coatings, (consumer use)

ERC8a, ERC8d; PC1, PC4, PC9a, PC9c, PC15, PC18, PC23, PC24, PC31

Control of exposure and risk management measures

| Contributing exposure scenario | |
|--------------------------------|--|
| Use descriptors covered | ERC8a: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed. |
| Operational conditions | |

| Contributing exposure scenario | |
|--------------------------------|---|
| Use descriptors covered | ERC8d: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed. |

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Operational conditions

| Contributing exposure scenario | |
|---|--|
| Use descriptors covered | PC1_2: Subcategory: Glues DIY-use (carpet glue, tile glue, wood parquet glue) |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 0.5 % |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | Exposure duration: 75 min Relevant for inhalative exposure estimates |
| Duration and Frequency of activity | Application duration: 75 min Relevant for inhalative exposure estimates |
| Room size | 58 m3 |
| Ventilation rate per hour | 2.5 |
| Temperature (Application) | 20 °C |
| body weight | 65 kg |
| Release area | 40000 cm ² |
| | Release area is constant |
| Release duration | 75 min |
| | Relevant for inhalative exposure estimates |
| Exposure estimate and reference to | |
| Assessment method | EASY TRA v4.2, ConsExpo v4.1, Inhalation model: exposure to vapour - evaporation |
| | Consumer - inhalation, short-term - systemic |
| Exposure estimate | 210.9903 mg/m³ |
| Risk Characterization Ratio (RCR) | 0.967845 |
| | The exposure calculation is based on a single use of the product. |
| Guidance to Downstream Users | |
| For scaling see: http://www.rivm.nl/en/ | healthanddisease/productsafety/ConsExpo.jsp |

| Contributing exposure scenario | |
|---|--|
| Use descriptors covered | PC1_4: Subcategory: Sealant |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 5 % |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | Exposure duration: 45 min Relevant for inhalative exposure estimates |
| Duration and Frequency of activity | Application duration: 30 min |

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| | Relevant for inhalative exposure estimates |
|---|--|
| Room size | 10 m3 |
| Ventilation rate per hour | 2 |
| Temperature (Application) | 20 °C |
| body weight | 65 kg |
| Release area | 250 cm ² |
| | Release area increases over time |
| Release duration | 30 min |
| | Relevant for inhalative exposure estimates |
| Exposure estimate and reference to | its source |
| Assessment method | EASY TRA v4.2, ConsExpo v4.1, Inhalation model: |
| Assessment method | exposure to vapour - evaporation |
| | Consumer - inhalation, short-term - systemic |
| Exposure estimate | 153.9865 mg/m³ |
| Risk Characterization Ratio (RCR) | 0.70636 |
| | The exposure calculation is based on a single use of the |
| | product. |
| Guidance to Downstream Users | |
| For scaling see: http://www.rivm.nl/en/ | healthanddisease/productsafety/ConsExpo.jsp |

| Contributing exposure scenario | |
|---|--|
| Use descriptors covered | PC1_2: Subcategory: Glues DIY-use (carpet glue, tile glue, wood parquet glue) |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 0.5 % |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | Exposure duration: 55 min Relevant for inhalative exposure estimates |
| Duration and Frequency of activity | Application duration: 55 min Relevant for inhalative exposure estimates |
| Duration and Frequency of activity | < 1 uses per year |
| Room size | 58 m3 |
| Ventilation rate per hour | 0.5 |
| Temperature (Application) | 20 °C |
| body weight | 65 kg |
| Release area | 220000 cm ² |
| | Release area increases over time |
| Release duration | 55 min |
| | Relevant for inhalative exposure estimates |
| Exposure estimate and reference to its source | |
| Assessment method | EASY TRA v4.2, ConsExpo v4.1, Inhalation model: exposure to vapour - evaporation |

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| | Consumer - inhalation, long-term - systemic |
|--|---|
| Exposure estimate | 11.7464 mg/m³ |
| Risk Characterization Ratio (RCR) | 0.903573 |
| | The exposure calculation is based on the mean |
| | concentration on the day of exposure. |
| Guidance to Downstream Users | |
| For scaling see: http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp | |

| Contributing exposure scenario | | |
|---|---|--|
| Use descriptors covered | PC1_1: Subcategory: Glues, hobby use | |
| Operational conditions | | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 10 % | |
| Vapour pressure of the substance during use | 414 Pa | |
| Duration and Frequency of activity | Exposure duration: 240 min Relevant for inhalative exposure estimates | |
| Duration and Frequency of activity | Application duration: 10 min Relevant for inhalative exposure estimates | |
| Duration and Frequency of activity | 1 uses per week | |
| Room size | 20 m3 | |
| Ventilation rate per hour | 0.6 | |
| Temperature (Application) | 20 °C | |
| body weight | 65 kg | |
| Release area | 200 cm ² | |
| | Release area increases over time | |
| Release duration | 10 min | |
| | Relevant for inhalative exposure estimates | |
| Exposure estimate and reference to | its source | |
| Assessment method | EASY TRA v4.2, ConsExpo v4.1, Inhalation model: exposure to vapour - evaporation | |
| | Consumer - inhalation, long-term - systemic | |
| Exposure estimate | 2.8221 mg/m³ | |
| Risk Characterization Ratio (RCR) | 0.217084 | |
| | The exposure calculation is based on the mean concentration on the day of exposure. | |
| Guidance to Downstream Users | | |
| For scaling see: http://www.rivm.nl/en/h | nealthanddisease/productsafety/ConsExpo.jsp | |

| Contributing exposure scenario | |
|--------------------------------|---|
| Use descriptors covered | PC1_3: Subcategory: Glue from spray |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol |

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| | Content: >= 0 % - <= 5 % |
|---|---|
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | Exposure duration: 240 min Relevant for inhalative exposure estimates |
| Duration and Frequency of activity | 1 uses per month |
| Room size | 20 m3 |
| Ventilation rate per hour | 0.6 |
| body weight | 65 kg |
| Spray duration | 170 sec |
| Risk Management Measures | |
| Consumer Measures | Ensure spraying away from persons. |
| Exposure estimate and reference to | its source |
| Assessment method | EASY TRA v4.2, ConsExpo v4.1, Inhalation model: Exposure to spray/dust |
| | Consumer - inhalation, long-term - systemic |
| Exposure estimate | 0.0174 mg/m³ |
| Risk Characterization Ratio (RCR) | 0.001335 |
| | The exposure calculation is based on the mean concentration on the day of exposure. |
| Guidance to Downstream Users | |
| For scaling see: http://www.rivm.nl/en/h | ealthanddisease/productsafety/ConsExpo.jsp |

| Contributing exposure scenario | |
|---|--|
| Use descriptors covered | PC4: Anti-Freeze and De-icing products. |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 1 % |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | Exposure duration: 1.2 min Relevant for inhalative exposure estimates |
| Duration and Frequency of activity | Application duration: 20 min Relevant for inhalative exposure estimates |
| Room size | 34 m3 |
| Ventilation rate per hour | 1.5 |
| Temperature (Application) | 20 °C |
| body weight | 65 kg |
| Release area | 60000 cm ² |
| | Release area is constant |
| Release duration | 20 min |
| | Relevant for inhalative exposure estimates |
| Exposure estimate and reference to its source | |

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| Assessment method | EASY TRA v4.2, ConsExpo v4.1, Inhalation model: exposure to vapour - evaporation |
|--|--|
| | Consumer - inhalation, short-term - systemic |
| Exposure estimate | 0.1409 mg/m ³ |
| Risk Characterization Ratio (RCR) | 0.000647 |
| | The exposure calculation is based on a single use of the product. |
| Guidance to Downstream Users | |
| For scaling see: http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp | |

| Contributing exposure scenario | |
|---|--|
| Use descriptors covered | PC4: Anti-Freeze and De-icing products. |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 3 % |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | Exposure duration: 10.2 min Relevant for inhalative exposure estimates |
| Duration and Frequency of activity | Application duration: 5 min Relevant for inhalative exposure estimates |
| Room size | 34 m3 |
| Ventilation rate per hour | 1.5 |
| Temperature (Application) | 20 °C |
| body weight | 65 kg |
| Release area | 100 cm ² |
| | Release area is constant |
| Release duration | 5 min |
| | Relevant for inhalative exposure estimates |
| Exposure estimate and reference to | its source |
| Assessment method | EASY TRA v4.2, ConsExpo v4.1, Inhalation model: |
| Assessment method | exposure to vapour - evaporation |
| | Consumer - inhalation, short-term - systemic |
| Exposure estimate | 81.3051 mg/m ³ |
| Risk Characterization Ratio (RCR) | 0.372959 |
| | The exposure calculation is based on a single use of the product. |
| Guidance to Downstream Users | |
| For scaling see: http://www.rivm.nl/en/ | healthanddisease/productsafety/ConsExpo.jsp |

| Contributing exposure scenario | |
|--------------------------------|---|
| Use descriptors covered | PC4: Anti-Freeze and De-icing products. |
| Operational conditions | · |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol |

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| | Content: >= 0 % - <= 10 % | |
|---|--|--|
| Vapour pressure of the substance during use | 414 Pa | |
| Duration and Frequency of activity | Exposure duration: 15 min | |
| Duration and Frequency of activity | Relevant for inhalative exposure estimates | |
| Room size | 34 m3 | |
| Ventilation rate per hour | 1.5 | |
| body weight | 65 kg | |
| Spray duration | 900 sec | |
| Risk Management Measures | | |
| Consumer Measures | Ensure spraying away from persons. | |
| Exposure estimate and reference to its source | | |
| Assessment method | EASY TRA v4.2, ConsExpo v4.1, Inhalation model: | |
| Assessment method | Exposure to spray/dust | |
| | Consumer - inhalation, short-term - systemic | |
| Exposure estimate | 5.1461 mg/m ³ | |
| Risk Characterization Ratio (RCR) | 0.023606 | |
| | The exposure calculation is based on a single use of the | |
| | product. | |
| Guidance to Downstream Users | | |
| For scaling see: http://www.rivm.nl/en/l | nealthanddisease/productsafety/ConsExpo.jsp | |

| Contributing exposure scenario | | |
|---|---|--|
| Use descriptors covered | PC9a_3, PC15_3: Subcategory: Aerosol spray can | |
| Operational conditions | | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 10 % | |
| Vapour pressure of the substance during use | 414 Pa | |
| Duration and Frequency of activity | Exposure duration: 20 min Relevant for inhalative exposure estimates | |
| Room size | 34 m3 | |
| Ventilation rate per hour | 1.5 | |
| body weight | 65 kg | |
| Spray duration | 900 sec | |
| Risk Management Measures | | |
| Consumer Measures | Ensure spraying away from persons. | |
| Exposure estimate and reference to its source | | |
| Assessment method | EASY TRA v4.2, ConsExpo v4.1, Inhalation model: Exposure to spray/dust | |
| | Consumer - inhalation, short-term - systemic | |
| Exposure estimate | 37.6195 mg/m³ | |
| Risk Characterization Ratio (RCR) | 0.172566 | |
| | The exposure calculation is based on a single use of the | |

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| product. | |
|--|--|
| Guidance to Downstream Users | |
| For scaling see: http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp | |

| Contributing exposure scenario | |
|---|--|
| Use descriptors covered | PC9a_4, PC15_4: Subcategory: Removers (paint-, glue-, wall paper-, sealant-remover) |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 1 % |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | Exposure duration: 60 min Relevant for inhalative exposure estimates |
| Duration and Frequency of activity | Application duration: 60 min Relevant for inhalative exposure estimates |
| Room size | 20 m3 |
| Ventilation rate per hour | 0.6 |
| Temperature (Application) | 20 °C |
| body weight | 65 kg |
| Release area | 20000 cm ² |
| | Release area increases over time |
| Release duration | 60 min |
| | Relevant for inhalative exposure estimates |
| Exposure estimate and reference to | |
| Assessment method | EASY TRA v4.2, ConsExpo v4.1, Inhalation model: |
| Assessment method | exposure to vapour - evaporation |
| - | Consumer - inhalation, short-term - systemic |
| Exposure estimate | 205.3967 mg/m³ |
| Risk Characterization Ratio (RCR) | 0.942187 |
| | The exposure calculation is based on a single use of the |
| | product. |
| Guidance to Downstream Users | |
| For scaling see: http://www.rivm.nl/en/h | nealthanddisease/productsafety/ConsExpo.jsp |

| Contributing exposure scenario | |
|---|--|
| Use descriptors covered | PC9a_1, PC15_1: Subcategory: Waterborne latex wall paint |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 2 % |
| Vapour pressure of the substance during use | 414 Pa |

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| Duration and Frequency of activity | Exposure duration: 60 min | |
|---|---|--|
| Duration and Frequency of activity | Relevant for inhalative exposure estimates | |
| Duration and Frequency of activity | Application duration: 55 min | |
| | Relevant for inhalative exposure estimates | |
| Duration and Frequency of activity | 2 uses per year | |
| Room size | 20 m3 | |
| Ventilation rate per hour | 1.5 | |
| Temperature (Application) | 20 °C | |
| body weight | 65 kg | |
| Release area | 150000 cm ² | |
| | Release area increases over time | |
| Release duration | 55 min | |
| | Relevant for inhalative exposure estimates | |
| Exposure estimate and reference to its source | | |
| Assessment method | EASY TRA v4.2, ConsExpo v4.1, Inhalation model: | |
| Assessment method | exposure to vapour - evaporation | |
| | Consumer - inhalation, long-term - systemic | |
| Exposure estimate | 9.8759 mg/m³ | |
| Risk Characterization Ratio (RCR) | 0.759687 | |
| | The exposure calculation is based on the mean | |
| | concentration on the day of exposure. | |
| Guidance to Downstream Users | | |
| For scaling see: http://www.rivm.nl/en/h | nealthanddisease/productsafety/ConsExpo.jsp | |

| Contributing exposure scenario | |
|---|--|
| Use descriptors covered | PC9c: Finger paints |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 9 % |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | 365 uses per year |
| body weight | 16.3 kg |
| Uptake fraction oral | 100 % |
| | Amount ingested 1.35 g Relevant for oral exposure estimates |
| Exposure estimate and reference to | its source |
| Assessment method | EASY TRA v4.2, ConsExpo v4.1, Oral model: direct intake, Uptake model: Uptake fraction |
| | Consumer - oral, long-term - systemic |
| Exposure estimate | 7.454 mg/kg bw/day |
| Risk Characterization Ratio (RCR) | 0.596319 |

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| | The calculation is based on the internal chronic dose. |
|--|--|
| Guidance to Downstream Users | |
| For scaling see: http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp | |

| Contributing exposure scenario | |
|---|---|
| Use descriptors covered | PC15: Non-metal-surface treatment products. |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 10 % |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | Exposure duration: 20 min Relevant for inhalative exposure estimates |
| Room size | 34 m3 |
| Ventilation rate per hour | 1.5 |
| body weight | 65 kg |
| Spray duration | 900 sec |
| Risk Management Measures | |
| Consumer Measures | Ensure spraying away from persons. |
| Exposure estimate and reference to | its source |
| Assessment method | EASY TRA v4.2, ConsExpo v4.1, Inhalation model: Exposure to spray/dust Consumer - inhalation, short-term - systemic |
| Exposure estimate | 37.6195 mg/m ³ |
| Risk Characterization Ratio (RCR) | 0.172566 |
| | The exposure calculation is based on a single use of the product. |
| Guidance to Downstream Users | |
| For scaling see: http://www.rivm.nl/en/ | healthanddisease/productsafety/ConsExpo.jsp |

| Contributing exposure scenario | |
|---|--|
| Use descriptors covered | PC15: Non-metal-surface treatment products. |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 2 % |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | Exposure duration: 55 min Relevant for inhalative exposure estimates |
| Duration and Frequency of activity | Application duration: 55 min Relevant for inhalative exposure estimates |
| Duration and Frequency of activity | 2 uses per year |

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| Room size | 20 m3 | |
|---|---|--|
| Ventilation rate per hour | 1.5 | |
| Temperature (Application) | 20 °C | |
| body weight | 65 kg | |
| Release area | 150000 cm ² | |
| | Release area increases over time | |
| Release duration | 55 min | |
| | Relevant for inhalative exposure estimates | |
| Exposure estimate and reference to its source | | |
| Assessment method | EASY TRA v4.2, ConsExpo v4.1, Inhalation model: | |
| Assessment method | exposure to vapour - evaporation | |
| | Consumer - inhalation, long-term - systemic | |
| Exposure estimate | 8.6212 mg/m ³ | |
| Risk Characterization Ratio (RCR) | 0.663172 | |
| | The exposure calculation is based on the mean | |
| | concentration on the day of exposure. | |
| Guidance to Downstream Users | | |
| For scaling see: http://www.rivm.nl/en/h | ealthanddisease/productsafety/ConsExpo.jsp | |

| Contributing exposure scenario | |
|---|--|
| Use descriptors covered | PC15: Non-metal-surface treatment products. |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 1 % |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | Exposure duration: 60 min Relevant for inhalative exposure estimates |
| Duration and Frequency of activity | Application duration: 60 min Relevant for inhalative exposure estimates |
| Duration and Frequency of activity | 1 uses per year |
| Room size | 20 m3 |
| Ventilation rate per hour | 0.6 |
| Temperature (Application) | 20 °C |
| body weight | 65 kg |
| Release area | 20000 cm ² |
| | Release area increases over time |
| Release duration | 60 min |
| | Relevant for inhalative exposure estimates |
| Exposure estimate and reference to | its source |
| Assessment method | EASY TRA v4.2, ConsExpo v4.1, Inhalation model: |
| Assessment method | exposure to vapour - evaporation |
| | Consumer - inhalation, long-term - systemic |
| Exposure estimate | 0.0043 mg/m ³ |

time to time.

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| Risk Characterization Ratio (RCR) | 0.000331 |
|--|---|
| | The exposure calculation is based on the mean |
| | concentration on the day of exposure. |
| Guidance to Downstream Users | |
| For scaling see: http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp | |

| Contributing exposure scenario | |
|---|---|
| Use descriptors covered | PC18: Ink and Toners. |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 10 % |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Fraguency of activity | Exposure duration: 132 min |
| Duration and Frequency of activity | Relevant for inhalative exposure estimates |
| Duration and Frequency of activity | 365 uses per year |
| body weight | 70 kg |
| Release duration | 132 min |
| | Relevant for inhalative exposure estimates |
| Exposure estimate and reference to | its source |
| Assessment method | EASY TRA v4.2, ConsExpo v4.1, Inhalation model: |
| Assessment method | exposure to vapour - constant rate |
| | Consumer - inhalation, long-term - systemic |
| Exposure estimate | 6.1771 mg/m³ |
| Risk Characterization Ratio (RCR) | 0.475164 |
| | The exposure calculation is based on the mean |
| | concentration on the day of exposure. |
| Guidance to Downstream Users | |
| For scaling see: http://www.rivm.nl/en/h | ealthanddisease/productsafety/ConsExpo.jsp |

| Contributing exposure scenario | |
|---|---|
| Use descriptors covered | PC23: Leather tanning, dye, finishing, impregnation and care products. |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 10 % |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | Exposure duration: 240 min Relevant for inhalative exposure estimates |
| Room size | 58 m3 |
| Ventilation rate per hour | 0.5 |

time to time.

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| body weight | 65 kg |
|--|--|
| Spray duration | 180 sec |
| Risk Management Measures | |
| Consumer Measures | Ensure spraying away from persons. |
| Exposure estimate and reference to its source | |
| Assessment method | EASY TRA v4.2, ConsExpo v4.1, Inhalation model: |
| Assessment method | Exposure to spray/dust |
| | Consumer - inhalation, short-term - systemic |
| Exposure estimate | 0.5022 mg/m³ |
| Risk Characterization Ratio (RCR) | 0.002303 |
| | The exposure calculation is based on a single use of the |
| | product. |
| Guidance to Downstream Users | |
| For scaling see: http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp | |

| | PC13_1, PC24_1: Subcategory: Liquids |
|---|---|
| Use descriptors covered | 1 0 10_1, 1 02 1_11 Substategery: Enquise |
| Operational conditions | |
| | To be archived: Reaction mass of 2-methylbutan-1-ol and |
| Concentration of the substance | pentan-1-ol |
| Concentration of the substance | Content: >= 0 % - <= 10 % |
| Vapour pressure of the substance | 414 Pa |
| during use | |
| Duration and Frequency of activity | Exposure duration: 60 min |
| | Relevant for inhalative exposure estimates |
| Duration and Frequency of activity | 1 uses per year |
| body weight | 65 kg |
| | |
| Release duration | 60 min |
| | Relevant for inhalative exposure estimates |
| Exposure estimate and reference to | its source |
| Assessment method | EASY TRA v4.2, ConsExpo v4.1, Inhalation model: |
| Assessment method | exposure to vapour - constant rate |
| | Consumer - inhalation, long-term - systemic |
| Exposure estimate | 8.6096 mg/m³ |
| Risk Characterization Ratio (RCR) | 0.662278 |
| . , | The exposure calculation is based on the mean |
| | concentration on the day of exposure. |
| Guidance to Downstream Users | |
| For scaling see: http://www.rivm.nl/en/ | healthanddisease/productsafety/ConsExpo.jsp |

| Contributing exposure scenario | |
|--------------------------------|---|
| Use descriptors covered | PC24_2: Subcategory: Pastes |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and |

time to time.

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| | pentan-1-ol |
|--|--|
| | Content: >= 0 % - <= 10 % |
| | |
| Vapour pressure of the substance | 414 Pa |
| during use | F |
| Duration and Frequency of activity | Exposure duration: 60 min |
| | Relevant for inhalative exposure estimates |
| Duration and Frequency of activity | 1 uses per year |
| Room size | 20 m3 |
| Ventilation rate per hour | 0.6 |
| body weight | 65 kg |
| | Amount per use 30 g Relevant for inhalative exposure |
| | estimates |
| Exposure estimate and reference to | its source |
| Assessment method | EASY TRA v4.2, ConsExpo v4.1, Inhalation model: |
| | evaporation model - instantaneous release |
| | Consumer - inhalation, long-term - systemic |
| Exposure estimate | 4.7003 mg/m ³ |
| Risk Characterization Ratio (RCR) | 0.361559 |
| | The exposure calculation is based on the mean |
| | concentration on the day of exposure. |
| Guidance to Downstream Users | |
| For scaling see: http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp | |

| Contributing exposure scenario | |
|---|---|
| Use descriptors covered | PC23_2, PC31_2: Subcategory: Polishes, spray (furniture, shoes) |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 10 % |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | Exposure duration: 240 min Relevant for inhalative exposure estimates |
| Room size | 58 m3 |
| Ventilation rate per hour | 0.5 |
| body weight | 65 kg |
| Spray duration | 180 sec |
| Risk Management Measures | |
| Consumer Measures | Ensure spraying away from persons. |
| Exposure estimate and reference to its source | |
| Assessment method | EASY TRA v4.2, ConsExpo v4.1, Inhalation model: Exposure to spray/dust |
| | Consumer - inhalation, short-term - systemic |

time to time.

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| Exposure estimate | 0.5022 mg/m ³ |
|--|---|
| Risk Characterization Ratio (RCR) | 0.002303 |
| | The exposure calculation is based on a single use of the product. |
| Guidance to Downstream Users | |
| For scaling see: http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp | |

| Contributing exposure scenario | |
|--|--|
| Use descriptors covered | PC23_1, PC31_1: Subcategory: Polishes, wax / cream (floor, furniture, shoes) |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 5 % |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | Exposure duration: 240 min Relevant for inhalative exposure estimates |
| Duration and Frequency of activity | Application duration: 90 min Relevant for inhalative exposure estimates |
| Duration and Frequency of activity | 1 uses per month |
| Room size | 58 m3 |
| Ventilation rate per hour | 0.5 |
| Temperature (Application) | 20 °C |
| body weight | 65 kg |
| Release area | 220000 cm ² |
| | Release area increases over time |
| Release duration | 90 min |
| | Relevant for inhalative exposure estimates |
| Exposure estimate and reference to | |
| Assessment method | EASY TRA v4.2, ConsExpo v4.1, Inhalation model: exposure to vapour - evaporation |
| <u> </u> | Consumer - inhalation, long-term - systemic |
| Exposure estimate | 7.1683 mg/m³ |
| Risk Characterization Ratio (RCR) | 0.551407 |
| | The exposure calculation is based on the mean concentration on the day of exposure. |
| Guidance to Downstream Users | |
| For scaling see: http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp | |

* * * * * * * * * * * * * * *

3. Short title of exposure scenario

Use as a Process chemical, (use in industrial settings) ERC4; PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC15

time to time.

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Control of exposure and risk management measures

| Contributing exposure scenario | |
|--------------------------------|---|
| Use descriptors covered | ERC4: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed. |
| Operational conditions | · |

| Contributing exposure scenario | |
|---|--|
| Use descriptors covered | PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % |
| Physical state | liquid |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | 480 min 5 days per week |
| Indoor/Outdoor | Indoor |
| | Assumes activities are at ambient temperature. |
| Risk Management Measures | |
| Supervision in place to check that the RMMs in place are being used correctly and OCs followed. | |
| Use suitable eye protection. | |
| In case of potential exposure:, Use suitable chemically resistant gloves. | |
| Exposure estimate and reference to | |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker |
| | Worker - inhalation, long-term - local |
| Exposure estimate | 0.0367 mg/m³ |
| Risk Characterization Ratio (RCR) | 0.000502 |
| Assessment method | Qualitative assessment |
| | Worker - dermal |
| Guidance to Downstream Users | |
| For scaling see: http://www.ecetoc.org/tra | |

| Contributing exposure scenario | |
|--------------------------------|---|
| | PROC2: Chemical production or refinery in closed |
| Use descriptors covered | continuous process with occasional controlled exposure or |
| | processes with equivalent containment conditions |

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| | Use domain: industrial |
|---|--|
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % |
| Physical state | liquid |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | 480 min 5 days per week |
| Indoor/Outdoor | Indoor |
| | Assumes activities are at ambient temperature. |
| Risk Management Measures | |
| Supervision in place to check that the RMMs in place are being used correctly and OCs followed. | |
| Personal measures have to be applied in case of potential exposure only. | |
| Use suitable eye protection. | |
| Avoid frequent and direct contact with substance. | |
| Use suitable chemically resistant gloves. | |
| Exposure estimate and reference to | ts source |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker |
| | Worker - inhalation, long-term - local |
| Exposure estimate | 3.6729 mg/m³ |
| Risk Characterization Ratio (RCR) | 0.050204 |
| Assessment method | Qualitative assessment |
| | Worker - dermal |
| Guidance to Downstream Users | |
| For scaling see: http://www.ecetoc.org/t | ra |

| Contributing exposure scenario | |
|----------------------------------|--|
| Use descriptors covered | PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: industrial |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % |
| Physical state | liquid |
| Vapour pressure of the substance | 414 Pa |

time to time.

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| during use | | |
|--|--|--|
| Duration and Frequency of activity | 480 min 5 days per week | |
| Indoor/Outdoor | Indoor | |
| | Assumes activities are at ambient temperature. | |
| Risk Management Measures | | |
| Supervision in place to check that the | | |
| RMMs in place are being used correctly and OCs followed. | | |
| Personal measures have to be | | |
| applied in case of potential exposure | | |
| only. | | |
| Use suitable eye protection. | | |
| Avoid frequent and direct contact with | | |
| substance. | | |
| Use suitable chemically resistant | | |
| gloves. | | |
| Exposure estimate and reference to its source | | |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker | |
| | Worker - inhalation, long-term - local | |
| Exposure estimate | 11.0188 mg/m³ | |
| Risk Characterization Ratio (RCR) | 0.150612 | |
| Assessment method | Qualitative assessment | |
| | Worker - dermal | |
| Guidance to Downstream Users | | |
| For scaling see: http://www.ecetoc.org/t | ra | |

| Contributing exposure scenario | |
|---|--|
| Use descriptors covered | PROC4: Chemical production where opportunity for exposure arises Use domain: industrial |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % |
| Physical state | liquid |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | 480 min 5 days per week |
| Indoor/Outdoor | Indoor |
| | Assumes activities are at ambient temperature. |
| Risk Management Measures | |
| Supervision in place to check that the | |
| RMMs in place are being used | |
| correctly and OCs followed. | |
| Personal measures have to be | |
| applied in case of potential exposure | |

time to time.

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| only. | |
|---|--|
| Use suitable eye protection. | |
| Avoid frequent and direct contact with | |
| substance. | |
| Use suitable chemically resistant | |
| gloves. | |
| Exposure estimate and reference to its source | |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker |
| | Worker - inhalation, long-term - local |
| Exposure estimate | 18.3646 mg/m ³ |
| Risk Characterization Ratio (RCR) | 0.251019 |
| Assessment method | Qualitative assessment |
| | Worker - dermal |
| Guidance to Downstream Users | |
| For scaling see: http://www.ecetoc.org/t | ra |

| Contributing exposure scenario | |
|---|--|
| Use descriptors covered | PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % |
| Physical state | liquid |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | 480 min 5 days per week |
| Indoor/Outdoor | Indoor |
| | Assumes activities are at ambient temperature. |
| Risk Management Measures | |
| Supervision in place to check that the RMMs in place are being used correctly and OCs followed. | |
| Personal measures have to be applied in case of potential exposure only. | |
| Use suitable eye protection. | |
| Avoid frequent and direct contact with substance. | |
| Use suitable chemically resistant gloves. | |
| Exposure estimate and reference to | its source |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker |
| | Worker - inhalation, long-term - local |
| Exposure estimate | 36.7292 mg/m³ |
| Risk Characterization Ratio (RCR) | 0.502039 |

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| Assessment method | Qualitative assessment |
|--|------------------------|
| | Worker - dermal |
| Guidance to Downstream Users | |
| For scaling see: http://www.ecetoc.org/tra | |

| Contributing exposure scenario | |
|--|---|
| Contributing exposure scenario | PROC8b: Transfer of substance or mixture (charging and |
| Use descriptors covered | discharging) at dedicated facilities |
| | Use domain: industrial |
| | |
| Operational conditions | |
| | To be archived: Reaction mass of 2-methylbutan-1-ol and |
| Concentration of the substance | pentan-1-ol |
| Control in the Substance | Content: >= 0 % - <= 100 % |
| Physical state | liquid |
| Vapour pressure of the substance | 414 Pa |
| during use | |
| Duration and Frequency of activity | 480 min 5 days per week |
| Indoor/Outdoor | Indoor |
| | Assumes activities are at ambient temperature. |
| Risk Management Measures | |
| Supervision in place to check that the | |
| RMMs in place are being used | |
| correctly and OCs followed. | |
| Personal measures have to be | |
| applied in case of potential exposure | |
| only. | |
| Use suitable eye protection. | |
| Avoid frequent and direct contact with | |
| substance. | |
| Use suitable chemically resistant | |
| gloves. | |
| Exposure estimate and reference to | |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker |
| | Worker - inhalation, long-term - local |
| Exposure estimate | 18.3646 mg/m ³ |
| Risk Characterization Ratio (RCR) | 0.251019 |
| Assessment method | Qualitative assessment |
| Ovidence to Development Head | Worker - dermal |
| Guidance to Downstream Users | |
| For scaling see: http://www.ecetoc.org/t | ira |

| Contributing exposure scenario | |
|--------------------------------|--|
| Use descriptors covered | PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial |
| Operational conditions | |

time to time.

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| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % | |
|---|--|--|
| Physical state | liquid | |
| Vapour pressure of the substance during use | 414 Pa | |
| Duration and Frequency of activity | 480 min 5 days per week | |
| Indoor/Outdoor | Indoor | |
| | Assumes activities are at ambient temperature. | |
| Risk Management Measures | | |
| Supervision in place to check that the | | |
| RMMs in place are being used | | |
| correctly and OCs followed. | | |
| Personal measures have to be | | |
| applied in case of potential exposure only. | | |
| Use suitable eye protection. | | |
| Avoid frequent and direct contact with substance. | | |
| Use suitable chemically resistant gloves. | | |
| Exposure estimate and reference to its source | | |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker | |
| | Worker - inhalation, long-term - local | |
| Exposure estimate | 18.3646 mg/m³ | |
| Risk Characterization Ratio (RCR) | 0.251019 | |
| Assessment method | Qualitative assessment | |
| | Worker - dermal | |
| Guidance to Downstream Users | | |
| For scaling see: http://www.ecetoc.org/ | tra | |

| Contributing exposure scenario | |
|---|--|
| Use descriptors covered | PROC15: Use a laboratory reagent. Use domain: industrial |
| Operational conditions | • |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % |
| Physical state | liquid |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | 480 min 5 days per week |
| Indoor/Outdoor | Indoor |
| | Assumes activities are at ambient temperature. |
| Risk Management Measures | |

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| Supervision in place to check that the RMMs in place are being used correctly and OCs followed. | | |
|---|--|--|
| Personal measures have to be | | |
| applied in case of potential exposure | | |
| | | |
| only. | | |
| Use suitable eye protection. | | |
| Avoid frequent and direct contact with | | |
| substance. | | |
| Use suitable chemically resistant | | |
| gloves. | | |
| Exposure estimate and reference to its source | | |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker | |
| | Worker - inhalation, long-term - local | |
| Exposure estimate | 18.3646 mg/m³ | |
| Risk Characterization Ratio (RCR) | 0.251019 | |
| Assessment method | Qualitative assessment | |
| | Worker - dermal | |
| Guidance to Downstream Users | | |
| For scaling see: http://www.ecetoc.org/t | ira | |

4. Short title of exposure scenario

Use in Cleaning Agents, (use in industrial settings) ERC4; PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC15

Control of exposure and risk management measures

| Contributing exposure scenario | |
|--------------------------------|---|
| Use descriptors covered | ERC4: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed. |
| Operational conditions | |

| Contributing exposure scenario | |
|--------------------------------|--|
| Use descriptors covered | PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % |

time to time.

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Product: **PENTANOL MIXTURE**

(ID no. 30036714/SDS_GEN_GB/EN)

| Physical state | liquid | |
|--|--|--|
| Vapour pressure of the substance | 414 Pa | |
| during use | | |
| Duration and Frequency of activity | 480 min 5 days per week | |
| Indoor/Outdoor | Indoor | |
| | Assumes activities are at ambient temperature. | |
| Risk Management Measures | | |
| Supervision in place to check that the | | |
| RMMs in place are being used | | |
| correctly and OCs followed. | | |
| Personal measures have to be | | |
| applied in case of potential exposure | | |
| only. | | |
| Use suitable eye protection. | | |
| Avoid frequent and direct contact with | | |
| substance. | | |
| Use suitable chemically resistant | | |
| gloves. | | |
| Exposure estimate and reference to i | | |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker | |
| | Worker - inhalation, long-term - local | |
| Exposure estimate | 0.0367 mg/m ³ | |
| Risk Characterization Ratio (RCR) | 0.000502 | |
| Assessment method | Qualitative assessment | |
| | Worker - dermal | |
| Guidance to Downstream Users | | |
| For scaling see: http://www.ecetoc.org/t | ra | |

| Contributing exposure scenario | | |
|---|--|--|
| Use descriptors covered | PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial | |
| Operational conditions | | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % | |
| Physical state | liquid | |
| Vapour pressure of the substance during use | 414 Pa | |
| Duration and Frequency of activity | 480 min 5 days per week | |
| Indoor/Outdoor | Indoor | |
| | Assumes activities are at ambient temperature. | |
| Risk Management Measures | | |
| Supervision in place to check that the | | |
| RMMs in place are being used | | |

time to time.

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| correctly and OCs followed. | |
|---|--|
| Personal measures have to be | |
| applied in case of potential exposure | |
| only. | |
| Use suitable eye protection. | |
| Avoid frequent and direct contact with | |
| substance. | |
| Use suitable chemically resistant | |
| gloves. | |
| Exposure estimate and reference to its source | |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker |
| | Worker - inhalation, long-term - local |
| Exposure estimate | 3.6729 mg/m³ |
| Risk Characterization Ratio (RCR) | 0.050204 |
| Assessment method | Qualitative assessment |
| | Worker - dermal |
| Guidance to Downstream Users | |
| For scaling see: http://www.ecetoc.org/t | ra |

| Contributing exposure scenario | |
|---|--|
| Use descriptors covered | PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: industrial |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % |
| Physical state | liquid |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | 480 min 5 days per week |
| Indoor/Outdoor | Indoor |
| | Assumes activities are at ambient temperature. |
| Risk Management Measures | |
| Supervision in place to check that the RMMs in place are being used correctly and OCs followed. | |
| Personal measures have to be applied in case of potential exposure only. | |
| Use suitable eye protection. | |
| Avoid frequent and direct contact with substance. | |
| Use suitable chemically resistant gloves. | |

time to time.

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| Exposure estimate and reference to its source | |
|---|--|
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker |
| | Worker - inhalation, long-term - local |
| Exposure estimate | 11.0188 mg/m³ |
| Risk Characterization Ratio (RCR) | 0.150612 |
| Assessment method | Qualitative assessment |
| | Worker - dermal |
| Guidance to Downstream Users | |
| For scaling see: http://www.ecetoc.org/tra | |

| Contributing exposure scenario | |
|---|--|
| Use descriptors covered | PROC4: Chemical production where opportunity for exposure arises Use domain: industrial |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % |
| Physical state | liquid |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | 480 min 5 days per week |
| Indoor/Outdoor | Indoor |
| | Assumes activities are at ambient temperature. |
| Risk Management Measures | |
| Supervision in place to check that the | |
| RMMs in place are being used | |
| correctly and OCs followed. | |
| Personal measures have to be | |
| applied in case of potential exposure | |
| only. | |
| Use suitable eye protection. | |
| Avoid frequent and direct contact with | |
| substance. | |
| Use suitable chemically resistant | |
| gloves. | |
| Exposure estimate and reference to | its source |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker |
| | Worker - inhalation, long-term - local |
| Exposure estimate | 18.3646 mg/m³ |
| Risk Characterization Ratio (RCR) | 0.251019 |
| Assessment method | Qualitative assessment |
| - | Worker - dermal |
| Guidance to Downstream Users | 1 |
| For scaling see: http://www.ecetoc.org/t | ra |

Contributing exposure scenario

time to time.

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| Use descriptors covered | PROC7: Industrial spraying Use domain: industrial |
|---|--|
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % |
| Physical state | liquid |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | 480 min 5 days per week |
| Indoor/Outdoor | Indoor |
| | Assumes activities are at ambient temperature. |
| | Large workrooms only |
| Application rate | < 3 l/min |
| Risk Management Measures | |
| Surface spraying with no or low | |
| compressed air use. | |
| Ensure medium level containment | |
| Ensure that general housekeeping is in place | |
| Provide a good standard of controlled ventilation (10 to 15 air changes per hour) | |
| Supervision in place to check that the RMMs in place are being used correctly and OCs followed. | |
| Use suitable eye protection. | |
| Avoid frequent and direct contact with substance. | |
| Use suitable chemically resistant gloves. | |
| Exposure estimate and reference to | |
| Assessment method | EASY TRA v4.2, Advanced REACH Tool v1.5 |
| | Worker - inhalation, long-term - local |
| Exposure estimate | 31 mg/m³ |
| Risk Characterization Ratio (RCR) | 0.423729 |
| Assessment method | Qualitative assessment |
| | Worker - dermal |
| Guidance to Downstream Users | |
| For scaling see: http://www.advancedre | achtool.com |

| Contributing exposure scenario | |
|--------------------------------|--|
| Use descriptors covered | PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial |
| Operational conditions | |

time to time.

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Product: **PENTANOL MIXTURE**

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| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % | |
|---|--|--|
| Physical state | liquid | |
| Vapour pressure of the substance during use | 414 Pa | |
| Duration and Frequency of activity | 480 min 5 days per week | |
| Indoor/Outdoor | Indoor | |
| | Assumes activities are at ambient temperature. | |
| Risk Management Measures | | |
| Supervision in place to check that the | | |
| RMMs in place are being used | | |
| correctly and OCs followed. | | |
| Personal measures have to be | | |
| applied in case of potential exposure only. | | |
| Use suitable eye protection. | | |
| Avoid frequent and direct contact with substance. | | |
| Use suitable chemically resistant gloves. | | |
| Exposure estimate and reference to its source | | |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker | |
| | Worker - inhalation, long-term - local | |
| Exposure estimate | 36.7292 mg/m³ | |
| Risk Characterization Ratio (RCR) | 0.502039 | |
| Assessment method | Qualitative assessment | |
| | Worker - dermal | |
| Guidance to Downstream Users | | |
| For scaling see: http://www.ecetoc.org/ | tra | |

| Contributing exposure scenario | |
|---|--|
| Use descriptors covered | PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % |
| Physical state | liquid |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | 480 min 5 days per week |
| Indoor/Outdoor | Indoor |
| | Assumes activities are at ambient temperature. |

time to time.

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| Risk Management Measures | |
|--|--|
| Supervision in place to check that the | |
| RMMs in place are being used | |
| correctly and OCs followed. | |
| Personal measures have to be | |
| applied in case of potential exposure | |
| only. | |
| Use suitable eye protection. | |
| Avoid frequent and direct contact with | |
| substance. | |
| Use suitable chemically resistant | |
| gloves. | |
| Exposure estimate and reference to i | ts source |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker |
| | Worker - inhalation, long-term - local |
| Exposure estimate | 18.3646 mg/m³ |
| Risk Characterization Ratio (RCR) | 0.251019 |
| Assessment method | Qualitative assessment |
| | Worker - dermal |
| Guidance to Downstream Users | |
| For scaling see: http://www.ecetoc.org/t | ra |

| Contributing exposure scenario | |
|---|--|
| Use descriptors covered | PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % |
| Physical state | liquid |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | 480 min 5 days per week |
| Indoor/Outdoor | Indoor |
| | Assumes activities are at ambient temperature. |
| Risk Management Measures | |
| Supervision in place to check that the RMMs in place are being used correctly and OCs followed. | |
| Personal measures have to be applied in case of potential exposure only. | |
| Use suitable eye protection. | |
| Avoid frequent and direct contact with substance. | |
| Use suitable chemically resistant | |

time to time.

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| gloves. | |
|---|--|
| Exposure estimate and reference to its source | |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker |
| | Worker - inhalation, long-term - local |
| Exposure estimate | 18.3646 mg/m³ |
| Risk Characterization Ratio (RCR) | 0.251019 |
| Assessment method | Qualitative assessment |
| | Worker - dermal |
| Guidance to Downstream Users | |
| For scaling see: http://www.ecetoc.org/tra | |

| Contributing exposure scenario | |
|--|---|
| PROC10: Roller application or brushing | |
| Use descriptors covered | Use domain: industrial |
| ose descriptors devered | |
| Operational conditions | |
| | To be archived: Reaction mass of 2-methylbutan-1-ol and |
| Concentration of the substance | pentan-1-ol |
| Concentration of the Substance | Content: >= 0 % - <= 100 % |
| Physical state | liquid |
| Vapour pressure of the substance | 414 Pa |
| during use | |
| | 480 min 5 days per week |
| Duration and Frequency of activity | |
| Indoor/Outdoor | Indoor |
| | Assumes activities are at ambient temperature. |
| Risk Management Measures | |
| Supervision in place to check that the | |
| RMMs in place are being used | |
| correctly and OCs followed. | |
| Personal measures have to be | |
| applied in case of potential exposure | |
| only. | |
| Use suitable eye protection. | |
| Avoid frequent and direct contact with | |
| substance. | |
| Use suitable chemically resistant | |
| gloves. | |
| Exposure estimate and reference to | |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker |
| | Worker - inhalation, long-term - local |
| Exposure estimate | 36.7292 mg/m³ |
| Risk Characterization Ratio (RCR) | 0.502039 |
| Assessment method | Qualitative assessment |
| | Worker - dermal |
| Guidance to Downstream Users | |
| For scaling see: http://www.ecetoc.org/t | ra |

Contributing exposure scenario

time to time.

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| Use descriptors covered | PROC13: Treatment of articles by dipping and pouring. Use domain: industrial |
|---|--|
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % |
| Physical state | liquid |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | 480 min 5 days per week |
| Indoor/Outdoor | Indoor |
| | Assumes activities are at ambient temperature. |
| Risk Management Measures | |
| Supervision in place to check that the RMMs in place are being used correctly and OCs followed. | |
| Personal measures have to be applied in case of potential exposure only. | |
| Use suitable eye protection. | |
| Avoid frequent and direct contact with substance. | |
| Use suitable chemically resistant gloves. | |
| Exposure estimate and reference to | its source |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker |
| | Worker - inhalation, long-term - local |
| Exposure estimate | 36.7292 mg/m ³ |
| Risk Characterization Ratio (RCR) | 0.502039 |
| Assessment method | Qualitative assessment |
| | Worker - dermal |
| Guidance to Downstream Users | |
| For scaling see: http://www.ecetoc.org/ | tra |

| Contributing exposure scenario | |
|---|--|
| Use descriptors covered | PROC15: Use a laboratory reagent. Use domain: industrial |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % |
| Physical state | liquid |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | 480 min 5 days per week |

time to time.

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| Indoor/Outdoor | Indoor | |
|---|--|--|
| | Assumes activities are at ambient temperature. | |
| Risk Management Measures | | |
| Supervision in place to check that the | | |
| RMMs in place are being used | | |
| correctly and OCs followed. | | |
| Personal measures have to be | | |
| applied in case of potential exposure | | |
| only. | | |
| Use suitable eye protection. | | |
| Avoid frequent and direct contact with | | |
| substance. | | |
| Use suitable chemically resistant | | |
| gloves. | | |
| Exposure estimate and reference to its source | | |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker | |
| | Worker - inhalation, long-term - local | |
| Exposure estimate | 18.3646 mg/m³ | |
| Risk Characterization Ratio (RCR) | 0.251019 | |
| Assessment method | Qualitative assessment | |
| | Worker - dermal | |
| Guidance to Downstream Users | | |
| For scaling see: http://www.ecetoc.org/t | ra | |

5. Short title of exposure scenario

Use in Coatings, (use in industrial settings)

ERC4; PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC15

Control of exposure and risk management measures

| Contributing exposure scenario | |
|--------------------------------|---|
| Use descriptors covered | ERC4: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed. |
| Operational conditions | |

| Contributing exposure scenario | |
|--------------------------------|--|
| Use descriptors covered | PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial |
| Operational conditions | |

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| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % |
|---|--|
| Physical state | liquid |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | 480 min 5 days per week |
| Indoor/Outdoor | Indoor |
| | Assumes activities are at ambient temperature. |
| Risk Management Measures | |
| Supervision in place to check that the | |
| RMMs in place are being used | |
| correctly and OCs followed. | |
| Personal measures have to be | |
| applied in case of potential exposure only. | |
| Use suitable eye protection. | |
| Avoid frequent and direct contact with substance. | |
| Use suitable chemically resistant gloves. | |
| Exposure estimate and reference to | its source |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker |
| | Worker - inhalation, long-term - local |
| Exposure estimate | 0.0367 mg/m ³ |
| Risk Characterization Ratio (RCR) | 0.000502 |
| Assessment method | Qualitative assessment |
| | Worker - dermal |
| Guidance to Downstream Users | |
| For scaling see: http://www.ecetoc.org/ | tra |

| Contributing exposure scenario | |
|---|--|
| Use descriptors covered | PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % |
| Physical state | liquid |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | 480 min 5 days per week |
| Indoor/Outdoor | Indoor |

time to time.

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Product: **PENTANOL MIXTURE**

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| | Assumes activities are at ambient temperature. |
|--|--|
| Risk Management Measures | |
| Supervision in place to check that the | |
| RMMs in place are being used | |
| correctly and OCs followed. | |
| Personal measures have to be | |
| applied in case of potential exposure | |
| only. | |
| Use suitable eye protection. | |
| Avoid frequent and direct contact with | |
| substance. | |
| Use suitable chemically resistant | |
| gloves. | |
| Exposure estimate and reference to it | ts source |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker |
| | Worker - inhalation, long-term - local |
| Exposure estimate | 3.6729 mg/m ³ |
| Risk Characterization Ratio (RCR) | 0.050204 |
| Assessment method | Qualitative assessment |
| | Worker - dermal |
| Guidance to Downstream Users | |
| For scaling see: http://www.ecetoc.org/t | ra |

| Contributing exposure scenario | |
|---|--|
| Use descriptors covered | PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: industrial |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % |
| Physical state | liquid |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | 480 min 5 days per week |
| Indoor/Outdoor | Indoor |
| | Assumes activities are at ambient temperature. |
| Risk Management Measures | |
| Supervision in place to check that the | |
| RMMs in place are being used | |
| correctly and OCs followed. | |
| Personal measures have to be | |
| applied in case of potential exposure | |
| only. Use suitable eye protection. | |
| Ose suitable eye protection. | <u> </u> |

time to time.

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| Avoid frequent and direct contact with substance. | |
|---|--|
| Use suitable chemically resistant | |
| gloves. | |
| Exposure estimate and reference to its source | |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker |
| | Worker - inhalation, long-term - local |
| Exposure estimate | 11.0188 mg/m³ |
| Risk Characterization Ratio (RCR) | 0.150612 |
| Assessment method | Qualitative assessment |
| | Worker - dermal |
| Guidance to Downstream Users | |
| For scaling see: http://www.ecetoc.org/tra | |

| Contributing exposure scenario | |
|---|--|
| Use descriptors covered | PROC4: Chemical production where opportunity for exposure arises Use domain: industrial |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % |
| Physical state | liquid |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | 480 min 5 days per week |
| Indoor/Outdoor | Indoor |
| | Assumes activities are at ambient temperature. |
| Risk Management Measures | |
| Supervision in place to check that the RMMs in place are being used correctly and OCs followed. | |
| Personal measures have to be applied in case of potential exposure only. | |
| Use suitable eye protection. | |
| Avoid frequent and direct contact with substance. | |
| Use suitable chemically resistant gloves. | |
| Exposure estimate and reference to its source | |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker |
| | Worker - inhalation, long-term - local |
| Exposure estimate | 18.3646 mg/m³ |
| Risk Characterization Ratio (RCR) | 0.251019 |
| Assessment method | Qualitative assessment |
| | Worker - dermal |

time to time.

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Product: **PENTANOL MIXTURE**

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| Guidance to Downstream Users | |
|--|--|
| For scaling see: http://www.ecetoc.org/tra | |

| Contributing exposure scenario | | |
|---|--|--|
| PROC7: Industrial spraying | | |
| Use descriptors covered | Use domain: industrial | |
| Operational conditions | | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % | |
| Physical state | liquid | |
| Vapour pressure of the substance during use | 414 Pa | |
| Duration and Frequency of activity | 480 min 5 days per week | |
| Indoor/Outdoor | Indoor | |
| | Assumes activities are at ambient temperature. | |
| | Large workrooms only | |
| Application rate | < 3 l/min | |
| Risk Management Measures | | |
| Surface spraying with no or low | | |
| compressed air use. | | |
| Ensure medium level containment | | |
| Ensure that general housekeeping is | | |
| in place | | |
| Provide a good standard of controlled | | |
| ventilation (10 to 15 air changes per | | |
| hour) | | |
| Supervision in place to check that the | | |
| RMMs in place are being used | | |
| correctly and OCs followed. Regular | | |
| inspection and maintenance of equipment and machines. | | |
| Use suitable eye protection. | | |
| Avoid frequent and direct contact with | | |
| substance. | | |
| Use suitable chemically resistant | | |
| gloves. | | |
| Exposure estimate and reference to its source | | |
| Assessment method | EASY TRA v4.2, Advanced REACH Tool v1.5 | |
| | Worker - inhalation, long-term - local | |
| Exposure estimate | 31 mg/m³ | |
| Risk Characterization Ratio (RCR) | 0.423729 | |
| Assessment method | Qualitative assessment | |
| | Worker - dermal | |
| Guidance to Downstream Users | | |
| For scaling see: http://www.advancedreachtool.com | | |

time to time.

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Product: **PENTANOL MIXTURE**

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| Contributing exposure scenario | | | |
|---|--|--|--|
| Use descriptors covered | PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial | | |
| Operational conditions | | | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % | | |
| Physical state | liquid | | |
| Vapour pressure of the substance during use | 414 Pa | | |
| Duration and Frequency of activity | 480 min 5 days per week | | |
| Indoor/Outdoor | Indoor | | |
| | Assumes activities are at ambient temperature. | | |
| Risk Management Measures | | | |
| Supervision in place to check that the RMMs in place are being used correctly and OCs followed. | | | |
| Personal measures have to be applied in case of potential exposure only. | | | |
| Use suitable eye protection. | | | |
| Avoid frequent and direct contact with substance. | | | |
| Use suitable chemically resistant gloves. | | | |
| Exposure estimate and reference to i | Exposure estimate and reference to its source | | |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker | | |
| | Worker - inhalation, long-term - local | | |
| Exposure estimate | 36.7292 mg/m³ | | |
| Risk Characterization Ratio (RCR) | 0.502039 | | |
| Assessment method | Qualitative assessment | | |
| - | Worker - dermal | | |
| Guidance to Downstream Users | | | |
| For scaling see: http://www.ecetoc.org/t | ra | | |

| Contributing exposure scenario | |
|--------------------------------|--|
| Use descriptors covered | PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % |
| Physical state | liquid |

time to time.

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| Vapour pressure of the substance during use | 414 Pa |
|---|--|
| Duration and Frequency of activity | 480 min 5 days per week |
| Indoor/Outdoor | Indoor |
| | Assumes activities are at ambient temperature. |
| Risk Management Measures | |
| Supervision in place to check that the RMMs in place are being used correctly and OCs followed. | |
| Personal measures have to be applied in case of potential exposure only. | |
| Use suitable eye protection. | |
| Avoid frequent and direct contact with | |
| substance. | |
| Use suitable chemically resistant | |
| gloves. | |
| Exposure estimate and reference to it | |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker |
| | Worker - inhalation, long-term - local |
| Exposure estimate | 18.3646 mg/m³ |
| Risk Characterization Ratio (RCR) | 0.251019 |
| Assessment method | Qualitative assessment |
| | Worker - dermal |
| Guidance to Downstream Users | |
| For scaling see: http://www.ecetoc.org/t | ra |

| Contributing exposure scenario | |
|---|--|
| Use descriptors covered | PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % |
| Physical state | liquid |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | 480 min 5 days per week |
| Indoor/Outdoor | Indoor |
| | Assumes activities are at ambient temperature. |
| Risk Management Measures | |
| Supervision in place to check that the | |
| RMMs in place are being used | |
| correctly and OCs followed. | |
| Personal measures have to be | |

time to time.

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| applied in case of potential exposure | 1 |
|---|--|
| only. | |
| Use suitable eye protection. | |
| Avoid frequent and direct contact with substance. | |
| Use suitable chemically resistant | |
| gloves. | |
| Exposure estimate and reference to it | ts source |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker |
| | Worker - inhalation, long-term - local |
| Exposure estimate | 18.3646 mg/m³ |
| Risk Characterization Ratio (RCR) | 0.251019 |
| Assessment method | Qualitative assessment |
| | Worker - dermal |
| Guidance to Downstream Users | |
| For scaling see: http://www.ecetoc.org/t | ra |

| Contributing exposure scenario | |
|---|--|
| | PROC10: Roller application or brushing |
| Use descriptors covered | Use domain: industrial |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % |
| Physical state | liquid |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | 480 min 5 days per week |
| Indoor/Outdoor | Indoor |
| | Assumes activities are at ambient temperature. |
| Risk Management Measures | |
| Supervision in place to check that the | |
| RMMs in place are being used | |
| correctly and OCs followed. | |
| Personal measures have to be | |
| applied in case of potential exposure only. | |
| Use suitable eye protection. | |
| Avoid frequent and direct contact with | |
| substance. | |
| Use suitable chemically resistant | |
| gloves. | |
| Exposure estimate and reference to | |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker |
| | Worker - inhalation, long-term - local |
| Exposure estimate | 36.7292 mg/m³ |
| Risk Characterization Ratio (RCR) | 0.502039 |

time to time.

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| Assessment method | Qualitative assessment |
|--|------------------------|
| | Worker - dermal |
| Guidance to Downstream Users | |
| For scaling see: http://www.ecetoc.org/tra | |

| Contributing exposure scenario | | |
|---|--|--|
| Use descriptors covered | PROC13: Treatment of articles by dipping and pouring. Use domain: industrial | |
| Operational conditions | | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % | |
| Physical state | liquid | |
| Vapour pressure of the substance during use | 414 Pa | |
| Duration and Frequency of activity | 480 min 5 days per week | |
| Indoor/Outdoor | Indoor | |
| | Assumes activities are at ambient temperature. | |
| Risk Management Measures | | |
| Supervision in place to check that the | | |
| RMMs in place are being used | | |
| correctly and OCs followed. | | |
| Personal measures have to be | | |
| applied in case of potential exposure only. | | |
| Use suitable eye protection. | | |
| Avoid frequent and direct contact with substance. | | |
| Use suitable chemically resistant gloves. | | |
| Exposure estimate and reference to its source | | |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker | |
| | Worker - inhalation, long-term - local | |
| Exposure estimate | 36.7292 mg/m³ | |
| Risk Characterization Ratio (RCR) | 0.502039 | |
| Assessment method | Qualitative assessment | |
| | Worker - dermal | |
| Guidance to Downstream Users | | |
| For scaling see: http://www.ecetoc.org/t | ra | |

| Contributing exposure scenario | |
|--------------------------------|---|
| Use descriptors covered | PROC15: Use a laboratory reagent. Use domain: industrial |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol |

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BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from

time to time.

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| | Content: >= 0 % - <= 100 % | |
|---|--|--|
| Physical state | liquid | |
| Vapour pressure of the substance during use | 414 Pa | |
| Duration and Frequency of activity | 480 min 5 days per week | |
| Indoor/Outdoor | Indoor | |
| | Assumes activities are at ambient temperature. | |
| Risk Management Measures | | |
| Supervision in place to check that the RMMs in place are being used correctly and OCs followed. | | |
| Personal measures have to be applied in case of potential exposure only. | | |
| Use suitable eye protection. | | |
| Avoid frequent and direct contact with substance. | | |
| Use suitable chemically resistant gloves. | | |
| Exposure estimate and reference to its source | | |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker | |
| | Worker - inhalation, long-term - local | |
| Exposure estimate | 18.3646 mg/m³ | |
| Risk Characterization Ratio (RCR) | 0.251019 | |
| Assessment method | Qualitative assessment | |
| | Worker - dermal | |
| Guidance to Downstream Users | | |
| For scaling see: http://www.ecetoc.org/t | ra | |

* * * * * * * * * * * * * * * *

6. Short title of exposure scenario

Use as an intermediate

ERC6a; PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC15

Control of exposure and risk management measures

| Contributing exposure scenario | |
|--------------------------------|--|
| Use descriptors covered | ERC6a: Use of intermediate As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed. |
| Operational conditions | |

| Contributing exposure scenario | |
|--------------------------------|--|
| Use descriptors covered | PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent |

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| | containment conditions. Use domain: industrial |
|---|--|
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % |
| Physical state | liquid |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | 480 min 5 days per week |
| Indoor/Outdoor | Indoor |
| | Assumes activities are at ambient temperature. |
| Risk Management Measures | |
| Supervision in place to check that the RMMs in place are being used correctly and OCs followed. | |
| Personal measures have to be applied in case of potential exposure only. | |
| Use suitable eye protection. | |
| Avoid frequent and direct contact with substance. | |
| Use suitable chemically resistant gloves. | |
| Exposure estimate and reference to | |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - local |
| Exposure estimate | 0.0367 mg/m ³ |
| Risk Characterization Ratio (RCR) | 0.000502 |
| Assessment method | Qualitative assessment |
| | Worker - dermal |
| Guidance to Downstream Users | |
| For scaling see: http://www.ecetoc.org/t | ra |

| Contributing exposure scenario | |
|----------------------------------|--|
| Use descriptors covered | PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % |
| Physical state | liquid |
| Vapour pressure of the substance | 414 Pa |

time to time.

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| during use | | |
|---|--|--|
| Duration and Frequency of activity | 480 min 5 days per week | |
| Indoor/Outdoor | Indoor | |
| | Assumes activities are at ambient temperature. | |
| Risk Management Measures | | |
| Supervision in place to check that the | | |
| RMMs in place are being used | | |
| correctly and OCs followed. | | |
| Personal measures have to be | | |
| applied in case of potential exposure | | |
| only. | | |
| Use suitable eye protection. | | |
| Avoid frequent and direct contact with | | |
| substance. | | |
| Use suitable chemically resistant | | |
| gloves. | | |
| Exposure estimate and reference to its source | | |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker | |
| | Worker - inhalation, long-term - local | |
| Exposure estimate | 3.6729 mg/m ³ | |
| Risk Characterization Ratio (RCR) | 0.050204 | |
| Assessment method | Qualitative assessment | |
| | Worker - dermal | |
| Guidance to Downstream Users | | |
| For scaling see: http://www.ecetoc.org/t | ra | |

| Contributing exposure scenario | |
|--|--|
| Use descriptors covered | PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: industrial |
| Operational conditions | · |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % |
| Physical state | liquid |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | 480 min 5 days per week |
| Indoor/Outdoor | Indoor |
| | Assumes activities are at ambient temperature. |
| Risk Management Measures | |
| Supervision in place to check that the | |
| RMMs in place are being used correctly and OCs followed. | |

time to time.

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| Personal measures have to be applied in case of potential exposure only. | | |
|--|--|--|
| Use suitable eye protection. | | |
| Avoid frequent and direct contact with | | |
| substance. | | |
| Use suitable chemically resistant | | |
| gloves. | | |
| Exposure estimate and reference to its source | | |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker | |
| | Worker - inhalation, long-term - local | |
| Exposure estimate | 11.0188 mg/m³ | |
| Risk Characterization Ratio (RCR) | 0.150612 | |
| Assessment method | Qualitative assessment | |
| | Worker - dermal | |
| Guidance to Downstream Users | | |
| For scaling see: http://www.ecetoc.org/t | ra | |

| Contributing exposure scenario | |
|---|--|
| Use descriptors covered | PROC4: Chemical production where opportunity for exposure arises Use domain: industrial |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % |
| Physical state | liquid |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | 480 min 5 days per week |
| Indoor/Outdoor | Indoor |
| | Assumes activities are at ambient temperature. |
| Risk Management Measures | |
| Supervision in place to check that the RMMs in place are being used correctly and OCs followed. | |
| Personal measures have to be applied in case of potential exposure only. | |
| Use suitable eye protection. | |
| Avoid frequent and direct contact with substance. | |
| Use suitable chemically resistant gloves. | |
| Exposure estimate and reference to its source | |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker |
| | Worker - inhalation, long-term - local |

time to time.

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| Exposure estimate | 18.3646 mg/m ³ |
|--|---------------------------|
| Risk Characterization Ratio (RCR) | 0.251019 |
| Assessment method | Qualitative assessment |
| | Worker - dermal |
| Guidance to Downstream Users | |
| For scaling see: http://www.ecetoc.org/tra | |

| Contributing exposure scenario | |
|---|--|
| Use descriptors covered | PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % |
| Physical state | liquid |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | 480 min 5 days per week |
| Indoor/Outdoor | Indoor |
| | Assumes activities are at ambient temperature. |
| Risk Management Measures | |
| Supervision in place to check that the RMMs in place are being used correctly and OCs followed. | |
| Personal measures have to be applied in case of potential exposure only. | |
| Use suitable eye protection. | |
| Avoid frequent and direct contact with substance. | |
| Use suitable chemically resistant gloves. | |
| Exposure estimate and reference to | its source |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - local |
| Exposure estimate | 36.7292 mg/m³ |
| Risk Characterization Ratio (RCR) | 0.502039 |
| Assessment method | Qualitative assessment Worker - dermal |
| Guidance to Downstream Users | |
| For scaling see: http://www.ecetoc.org/t | ira |

| Contributing exposure scenario | |
|--------------------------------|--|
| Use descriptors covered | PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial |

time to time.

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| Operational conditions | |
|---|--|
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % |
| Physical state | liquid |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | 480 min 5 days per week |
| Indoor/Outdoor | Indoor |
| | Assumes activities are at ambient temperature. |
| Risk Management Measures | |
| Supervision in place to check that the RMMs in place are being used correctly and OCs followed. | |
| Personal measures have to be applied in case of potential exposure only. | |
| Use suitable eye protection. | |
| Avoid frequent and direct contact with substance. | |
| Use suitable chemically resistant gloves. | |
| Exposure estimate and reference to | its source |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker |
| | Worker - inhalation, long-term - local |
| Exposure estimate | 18.3646 mg/m³ |
| Risk Characterization Ratio (RCR) | 0.251019 |
| Assessment method | Qualitative assessment |
| | Worker - dermal |
| Guidance to Downstream Users | |
| For scaling see: http://www.ecetoc.org/t | ra |

| Contributing exposure scenario | |
|---|--|
| Use descriptors covered | PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % |
| Physical state | liquid |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | 480 min 5 days per week |

time to time.

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| Indoor/Outdoor | Indoor | |
|---|--|--|
| | Assumes activities are at ambient temperature. | |
| Risk Management Measures | | |
| Supervision in place to check that the | | |
| RMMs in place are being used | | |
| correctly and OCs followed. | | |
| Personal measures have to be | | |
| applied in case of potential exposure | | |
| only. | | |
| Use suitable eye protection. | | |
| Avoid frequent and direct contact with | | |
| substance. | | |
| Use suitable chemically resistant | | |
| gloves. | | |
| Exposure estimate and reference to its source | | |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker | |
| | Worker - inhalation, long-term - local | |
| Exposure estimate | 18.3646 mg/m³ | |
| Risk Characterization Ratio (RCR) | 0.251019 | |
| Assessment method | Qualitative assessment | |
| | Worker - dermal | |
| Guidance to Downstream Users | | |
| For scaling see: http://www.ecetoc.org/t | ra | |

| Contributing exposure scenario | | |
|--|---|--|
| | PROC15: Use a laboratory reagent. | |
| Use descriptors covered | Use domain: industrial | |
| | | |
| Operational conditions | | |
| | To be archived: Reaction mass of 2-methylbutan-1-ol and | |
| Concentration of the substance | pentan-1-ol | |
| | Content: >= 0 % - <= 100 % | |
| Physical state | liquid | |
| Vapour pressure of the substance | 414 Pa | |
| during use | 414 F | |
| during date | 480 min 5 days per week | |
| Duration and Frequency of activity | 400 min 3 days per week | |
| Indoor/Outdoor | Indoor | |
| | Assumes activities are at ambient temperature. | |
| Risk Management Measures | | |
| Supervision in place to check that the | | |
| RMMs in place are being used | | |
| correctly and OCs followed. | | |
| Personal measures have to be | | |
| applied in case of potential exposure | | |
| only. | | |
| Use suitable eye protection. | | |
| Avoid frequent and direct contact with | | |
| substance. | | |

time to time.

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| Use suitable chemically resistant | |
|--|--|
| gloves. | |
| Exposure estimate and reference to | o its source |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker |
| | Worker - inhalation, long-term - local |
| Exposure estimate | 18.3646 mg/m³ |
| Risk Characterization Ratio (RCR) | 0.251019 |
| Assessment method | Qualitative assessment |
| | Worker - dermal |
| Guidance to Downstream Users | |
| For scaling see: http://www.ecetoc.org/tra | |

* * * * * * * * * * * * * * * *

7. Short title of exposure scenario

Use in Agrochemicals, (use in professional settings) ERC8a, ERC8d; PROC8a, PROC8b, PROC9, PROC11, PROC13

Control of exposure and risk management measures

| Contributing exposure scenario | |
|--------------------------------|--|
| Use descriptors covered | ERC8a: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed. |
| Operational conditions | |

| Contributing exposure scenario | |
|--------------------------------|---|
| Use descriptors covered | ERC8d: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed. |
| Operational conditions | <u>.</u> |

| Contributing exposure scenario | | |
|----------------------------------|--|--|
| Use descriptors covered | PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: professional | |
| Operational conditions | | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % | |
| Physical state | liquid | |
| Vapour pressure of the substance | 414 Pa | |

time to time.

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| during use | |
|---|--|
| Duration and Frequency of activity | 480 min 5 days per week |
| Indoor/Outdoor | Indoor |
| | Assumes activities are at ambient temperature. |
| Risk Management Measures | |
| Provide a good standard of general | |
| ventilation (not less than 3 - 5 air | Effectiveness: 30 % |
| changes per hour) | |
| Supervision in place to check that the | |
| RMMs in place are being used | |
| correctly and OCs followed. | |
| Personal measures have to be | |
| applied in case of potential exposure | |
| only. | |
| Use suitable eye protection. | |
| Avoid frequent and direct contact with | |
| substance. | |
| Use suitable chemically resistant | |
| gloves. | |
| Exposure estimate and reference to its source | |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker |
| | Worker - inhalation, long-term - local |
| Exposure estimate | 64.276 mg/m ³ |
| Risk Characterization Ratio (RCR) | 0.878568 |
| Assessment method | Qualitative assessment |
| | Worker - dermal |
| Guidance to Downstream Users | |
| For scaling see: http://www.ecetoc.org/t | ra |

| Contributing exposure scenario | |
|---|--|
| Use descriptors covered | PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: professional |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % |
| Physical state | liquid |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | 480 min 5 days per week |
| Indoor/Outdoor | Indoor |
| | Assumes activities are at ambient temperature. |
| Risk Management Measures | |
| Supervision in place to check that the | |
| RMMs in place are being used | |

time to time.

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| correctly and OCs followed. | |
|---|--|
| Personal measures have to be | |
| applied in case of potential exposure | |
| only. | |
| Use suitable eye protection. | |
| Avoid frequent and direct contact with | |
| substance. | |
| Use suitable chemically resistant | |
| gloves. | |
| Exposure estimate and reference to its source | |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker |
| | Worker - inhalation, long-term - local |
| Exposure estimate | 36.7292 mg/m³ |
| Risk Characterization Ratio (RCR) | 0.502039 |
| Assessment method | Qualitative assessment |
| | Worker - dermal |
| Guidance to Downstream Users | |
| For scaling see: http://www.ecetoc.org/t | ra |

| Contributing exposure scenario | |
|---|--|
| Use descriptors covered | PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: professional |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % |
| Physical state | liquid |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | 480 min 5 days per week |
| Indoor/Outdoor | Indoor |
| | Assumes activities are at ambient temperature. |
| Risk Management Measures | |
| Supervision in place to check that the RMMs in place are being used correctly and OCs followed. | |
| Personal measures have to be applied in case of potential exposure only. | |
| Use suitable eye protection. | |
| Avoid frequent and direct contact with substance. | |
| Use suitable chemically resistant gloves. | |
| Exposure estimate and reference to its source | |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker |

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| | Worker - inhalation, long-term - local |
|--|--|
| Exposure estimate | 36.7292 mg/m ³ |
| Risk Characterization Ratio (RCR) | 0.502039 |
| Assessment method | Qualitative assessment |
| Worker - dermal | |
| Guidance to Downstream Users | |
| For scaling see: http://www.ecetoc.org/tra | |

| Contributing exposure scenario | |
|---|---|
| | PROC11: Non industrial spraying |
| Use descriptors covered | Use domain: professional |
| Operational conditions | |
| | To be archived: Reaction mass of 2-methylbutan-1-ol and |
| Concentration of the substance | pentan-1-ol |
| 20com and a mo addition | Content: >= 0 % - <= 100 % |
| Physical state | liquid |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | 480 min 5 days per week |
| Indoor/Outdoor | outdoor, away from buildings |
| Indoor/Oddaoor | Assumes activities are at ambient temperature. |
| Application rate | > 3 l/min |
| Risk Management Measures | > 3 |
| Ensure that the task is carried out only | |
| downward. | |
| Ensure that general housekeeping is | |
| in place | |
| Ensure that the task is being carried | |
| out outside the breathing zone of a | |
| worker (distance head-product greater | |
| than 1m). | |
| Supervision in place to check that the | |
| RMMs in place are being used | |
| correctly and OCs followed. | |
| Use suitable eye protection. | |
| Avoid frequent and direct contact with | |
| substance. | |
| Use suitable chemically resistant | |
| gloves. | |
| Exposure estimate and reference to | its source |
| Assessment method | EASY TRA v4.2, Advanced REACH Tool v1.5 |
| - | Worker - inhalation, long-term - local |
| Exposure estimate | 43 mg/m³ |
| Risk Characterization Ratio (RCR) | 0.587753 |
| Assessment method | Qualitative assessment |
| - | Worker - dermal |
| Guidance to Downstream Users | , |

time to time.

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For scaling see: http://www.advancedreachtool.com

| Contributing exposure scenario | |
|---|---|
| | PROC13: Treatment of articles by dipping and pouring. |
| Use descriptors covered | Use domain: professional |
| Operational conditions | |
| | To be archived: Reaction mass of 2-methylbutan-1-ol and |
| Concentration of the substance | pentan-1-ol |
| Concentration of the Substance | Content: >= 0 % - <= 100 % |
| Physical state | liquid |
| Vapour pressure of the substance | 414 Pa |
| during use | |
| Duration and Frequency of activity | 480 min 5 days per week |
| Indoor/Outdoor | Indoor |
| | Assumes activities are at ambient temperature. |
| Risk Management Measures | |
| Supervision in place to check that the | |
| RMMs in place are being used | |
| correctly and OCs followed. | |
| Personal measures have to be | |
| applied in case of potential exposure | |
| only. | |
| Use suitable eye protection. | |
| Avoid frequent and direct contact with | |
| substance. | |
| Use suitable chemically resistant | |
| gloves. | |
| Exposure estimate and reference to | |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker |
| | Worker - inhalation, long-term - local |
| Exposure estimate | 36.7292 mg/m³ |
| Risk Characterization Ratio (RCR) | 0.502039 |
| Assessment method | Qualitative assessment |
| | Worker - dermal |
| Guidance to Downstream Users | |
| For scaling see: http://www.ecetoc.org/ | tra |

8. Short title of exposure scenario
Use in Cleaning Agents, (use in professional settings)
ERC8a, ERC8d; PROC5, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC19

Control of exposure and risk management measures

| Contributing exposure scenario | |
|--------------------------------|--|
| Use descriptors covered | ERC8a: Widespread use of non-reactive processing aid |

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| | (no inclusion into or onto article, indoor) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed. |
|------------------------|---|
| Operational conditions | |

| Contributing exposure scenario | |
|--------------------------------|---|
| Use descriptors covered | ERC8d: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed. |
| Operational conditions | |

| Contributing exposure scenario | |
|---|--|
| Use descriptors covered | PROC5: Mixing or blending in batch processes Use domain: professional |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % |
| Physical state | liquid |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | 480 min 5 days per week |
| Indoor/Outdoor | Indoor |
| | Assumes activities are at ambient temperature. |
| Risk Management Measures | |
| Supervision in place to check that the RMMs in place are being used correctly and OCs followed. | |
| Personal measures have to be applied in case of potential exposure only. | |
| Use suitable eye protection. | |
| Avoid frequent and direct contact with substance. | |
| Use suitable chemically resistant gloves. | |
| Exposure estimate and reference to its source | |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker |
| | Worker - inhalation, long-term - local |
| Exposure estimate | 36.7292 mg/m³ |
| Risk Characterization Ratio (RCR) | 0.502039 |
| Assessment method | Qualitative assessment |

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| Worker - dermal | |
|--|--|
| Guidance to Downstream Users | |
| For scaling see: http://www.ecetoc.org/tra | |

| Contributing exposure scenario | | |
|---|--|--|
| Use descriptors covered | PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: professional | |
| Operational conditions | | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % | |
| Physical state | liquid | |
| Vapour pressure of the substance during use | 414 Pa | |
| Duration and Frequency of activity | 480 min 5 days per week | |
| Indoor/Outdoor | Indoor | |
| | Assumes activities are at ambient temperature. | |
| Risk Management Measures | | |
| Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour) | Effectiveness: 30 % | |
| Supervision in place to check that the RMMs in place are being used correctly and OCs followed. | | |
| Personal measures have to be applied in case of potential exposure only. | | |
| Use suitable eye protection. | | |
| Avoid frequent and direct contact with substance. | | |
| Use suitable chemically resistant gloves. | | |
| Exposure estimate and reference to | its source | |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker | |
| Evacura actimata | Worker - inhalation, long-term - local | |
| Exposure estimate Risk Characterization Ratio (RCR) | 64.276 mg/m³ 0.878568 | |
| Assessment method | Qualitative assessment | |
| A3553HEIR HIGHIOU | Worker - dermal | |
| Guidance to Downstream Users | Tronto domina | |
| For scaling see: http://www.ecetoc.org/ | tra | |
| . c. ccaig ccci intpi/iiiiiiiicoctocioig/ | | |

| Contributing exposure scenario | |
|--------------------------------|--|
| Use descriptors covered | PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: professional |

time to time.

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Product: **PENTANOL MIXTURE**

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| Operational conditions | |
|---|--|
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % |
| Physical state | liquid |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | 480 min 5 days per week |
| Indoor/Outdoor | Indoor |
| | Assumes activities are at ambient temperature. |
| Risk Management Measures | |
| Supervision in place to check that the RMMs in place are being used correctly and OCs followed. | |
| Personal measures have to be applied in case of potential exposure only. | |
| Use suitable eye protection. | |
| Avoid frequent and direct contact with substance. | |
| Use suitable chemically resistant gloves. | |
| Exposure estimate and reference to its source | |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker |
| | Worker - inhalation, long-term - local |
| Exposure estimate | 36.7292 mg/m ³ |
| Risk Characterization Ratio (RCR) | 0.502039 |
| Assessment method | Qualitative assessment |
| | Worker - dermal |
| Guidance to Downstream Users | |
| For scaling see: http://www.ecetoc.org/t | ra |

| Contributing exposure scenario | | |
|---|--|--|
| Use descriptors covered | PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: professional | |
| Operational conditions | | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % | |
| Physical state | liquid | |
| Vapour pressure of the substance during use | 414 Pa | |
| Duration and Frequency of activity | 480 min 5 days per week | |

time to time.

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| Indoor/Outdoor | Indoor |
|--|--|
| | Assumes activities are at ambient temperature. |
| Risk Management Measures | |
| Supervision in place to check that the | |
| RMMs in place are being used correctly and OCs followed. | |
| Personal measures have to be | |
| applied in case of potential exposure | |
| only. | |
| Use suitable eye protection. | |
| Avoid frequent and direct contact with | |
| substance. | |
| Use suitable chemically resistant | |
| gloves. | |
| Exposure estimate and reference to | its source |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker |
| | Worker - inhalation, long-term - local |
| Exposure estimate | 36.7292 mg/m³ |
| Risk Characterization Ratio (RCR) | 0.502039 |
| Assessment method | Qualitative assessment |
| | Worker - dermal |
| Guidance to Downstream Users | |
| For scaling see: http://www.ecetoc.org/t | ira |

| Contributing exposure scenario | | |
|---|--|--|
| Use descriptors covered | PROC10: Roller application or brushing Use domain: professional | |
| Operational conditions | | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % | |
| Physical state | liquid | |
| Vapour pressure of the substance during use | 414 Pa | |
| Duration and Frequency of activity | 480 min 5 days per week | |
| Indoor/Outdoor | Indoor | |
| | Assumes activities are at ambient temperature. | |
| Risk Management Measures | | |
| Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour) | Effectiveness: 30 % | |
| Supervision in place to check that the | | |
| RMMs in place are being used | | |
| correctly and OCs followed. | | |
| Personal measures have to be applied in case of potential exposure only. | | |

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| Use suitable eye protection. | |
|---|--|
| Avoid frequent and direct contact with | |
| substance. | |
| Use suitable chemically resistant | |
| gloves. | |
| Exposure estimate and reference to its source | |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker |
| | Worker - inhalation, long-term - local |
| Exposure estimate | 64.276 mg/m ³ |
| Risk Characterization Ratio (RCR) | 0.878568 |
| Assessment method | Qualitative assessment |
| | Worker - dermal |
| Guidance to Downstream Users | |
| For scaling see: http://www.ecetoc.org/tra | |

| Contribution composition | |
|--|---|
| Contributing exposure scenario | |
| <u> </u> | PROC11: Non industrial spraying |
| Use descriptors covered | Use domain: professional |
| Operational conditions | |
| | To be archived: Reaction mass of 2-methylbutan-1-ol and |
| Concentration of the substance | pentan-1-ol |
| | Content: >= 0 % - <= 100 % |
| Physical state | liquid |
| Vapour pressure of the substance | 414 Pa |
| during use | |
| Duration and Frequency of activity | 480 min 5 days per week |
| Indoor/Outdoor | Indoor |
| | Assumes activities are at ambient temperature. |
| | Large workrooms only |
| Application rate | < 3 l/min |
| Risk Management Measures | |
| Surface spraying with no or low | |
| compressed air use. | |
| Ensure medium level containment | |
| Ensure that general housekeeping is | |
| in place | |
| Provide a good standard of controlled | |
| ventilation (10 to 15 air changes per | |
| hour) | |
| Supervision in place to check that the | |
| RMMs in place are being used | |
| correctly and OCs followed. | |
| Use suitable eye protection. | |
| Avoid frequent and direct contact with | |
| substance. | |
| Use suitable chemically resistant | |
| gloves. | |

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| Exposure estimate and reference to its source | | |
|---|---|--|
| Assessment method | EASY TRA v4.2, Advanced REACH Tool v1.5 | |
| | Worker - inhalation, long-term - local | |
| Exposure estimate | 31 mg/m ³ | |
| Risk Characterization Ratio (RCR) | 0.423729 | |
| Assessment method | Qualitative assessment | |
| Worker - dermal | | |
| Guidance to Downstream Users | | |
| For scaling see: http://www.advancedreachtool.com | | |

| Contributing exposure scenario | T |
|---|--|
| Use descriptors covered | PROC13: Treatment of articles by dipping and pouring. Use domain: professional |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % |
| Physical state | liquid |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | 480 min 5 days per week |
| Indoor/Outdoor | Indoor |
| | Assumes activities are at ambient temperature. |
| Risk Management Measures | |
| Supervision in place to check that the RMMs in place are being used correctly and OCs followed. | |
| Personal measures have to be applied in case of potential exposure only. | |
| Use suitable eye protection. | |
| Avoid frequent and direct contact with substance. | |
| Use suitable chemically resistant gloves. | |
| Exposure estimate and reference to | its source |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - local |
| Exposure estimate | 36.7292 mg/m³ |
| Risk Characterization Ratio (RCR) | 0.502039 |
| Assessment method | Qualitative assessment Worker - dermal |
| Guidance to Downstream Users | • |
| For scaling see: http://www.ecetoc.org/t | tra |

| Contributing exposure scenario | |
|--------------------------------|--|
| Use descriptors covered | PROC19: Manual activities involving hand contact |

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| | Use domain: professional |
|---|--|
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % |
| Physical state | liquid |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | 480 min 5 days per week |
| Indoor/Outdoor | Indoor |
| | Assumes activities are at ambient temperature. |
| Risk Management Measures | |
| Wear suitable respiratory protection. | Effectiveness: 90 % |
| Supervision in place to check that the RMMs in place are being used correctly and OCs followed. | |
| Personal measures have to be applied in case of potential exposure only. | |
| Use suitable eye protection. | |
| Avoid frequent and direct contact with substance. | |
| Use suitable chemically resistant gloves. | |
| Exposure estimate and reference to | its source |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker |
| | Worker - inhalation, long-term - local |
| Exposure estimate | 9.1823 mg/m³ |
| Risk Characterization Ratio (RCR) | 0.12551 |
| Assessment method | Qualitative assessment |
| | Worker - dermal |
| Guidance to Downstream Users | |
| For scaling see: http://www.ecetoc.org/ | tra |

Use in Coatings, (use in professional settings)

9. Short title of exposure scenario

ERC8a, ERC8d; PROC5, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC19

Control of exposure and risk management measures

| Contributing exposure scenario | |
|--------------------------------|--|
| Use descriptors covered | ERC8a: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) As no environmental hazard was identified no environmental-related exposure assessment and risk |

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| | characterization was performed. |
|------------------------|---------------------------------|
| Operational conditions | |

| Contributing exposure scenario | |
|--------------------------------|---|
| Use descriptors covered | ERC8d: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed. |
| Operational conditions | |

| Contributing exposure scenario | |
|---|---|
| | PROC5: Mixing or blending in batch processes |
| Use descriptors covered | Use domain: professional |
| Operational conditions | |
| | To be archived: Reaction mass of 2-methylbutan-1-ol and |
| Concentration of the substance | pentan-1-ol |
| | Content: >= 0 % - <= 100 % |
| Physical state | liquid |
| Vapour pressure of the substance | 414 Pa |
| during use | |
| Duration and Frequency of activity | 480 min 5 days per week |
| <u> </u> | |
| Indoor/Outdoor | Indoor |
| | Assumes activities are at ambient temperature. |
| Risk Management Measures | - |
| Supervision in place to check that the | |
| RMMs in place are being used | |
| correctly and OCs followed. | |
| Personal measures have to be | |
| applied in case of potential exposure | |
| only. | |
| Use suitable eye protection. | |
| Avoid frequent and direct contact with | |
| substance. | |
| Use suitable chemically resistant | |
| gloves. | |
| Exposure estimate and reference to | |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker |
| | Worker - inhalation, long-term - local |
| Exposure estimate | 36.7292 mg/m³ |
| Risk Characterization Ratio (RCR) | 0.502039 |
| Assessment method | Qualitative assessment |
| | Worker - dermal |
| Guidance to Downstream Users | |
| For scaling see: http://www.ecetoc.org/ | tra |

time to time.

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| Contributing exposure scenario | | |
|---|--|--|
| Use descriptors covered | PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: professional | |
| Operational conditions | | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % | |
| Physical state | liquid | |
| Vapour pressure of the substance during use | 414 Pa | |
| Duration and Frequency of activity | 480 min 5 days per week | |
| Indoor/Outdoor | Indoor | |
| | Assumes activities are at ambient temperature. | |
| Risk Management Measures | | |
| Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour) | Effectiveness: 30 % | |
| Supervision in place to check that the RMMs in place are being used correctly and OCs followed. | | |
| Personal measures have to be applied in case of potential exposure only. | | |
| Use suitable eye protection. | | |
| Avoid frequent and direct contact with substance. | | |
| Use suitable chemically resistant gloves. | | |
| Exposure estimate and reference to | its source | |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker | |
| | Worker - inhalation, long-term - local | |
| Exposure estimate | 64.276 mg/m³ | |
| Risk Characterization Ratio (RCR) | 0.878568 | |
| Assessment method | Qualitative assessment | |
| | Worker - dermal | |
| Guidance to Downstream Users | | |
| For scaling see: http://www.ecetoc.org/t | tra | |

| Contributing exposure scenario | |
|--------------------------------|--|
| Use descriptors covered | PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: professional |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and |

time to time.

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| | pentan-1-ol |
|--|--|
| | Content: >= 0 % - <= 100 % |
| | |
| Physical state | liquid |
| Vapour pressure of the substance | 414 Pa |
| during use | |
| Duration and Frequency of activity | 480 min 5 days per week |
| Indoor/Outdoor | Indoor |
| | Assumes activities are at ambient temperature. |
| Risk Management Measures | |
| Supervision in place to check that the | |
| RMMs in place are being used | |
| correctly and OCs followed. | |
| Personal measures have to be | |
| applied in case of potential exposure | |
| only. | |
| Use suitable eye protection. | |
| Avoid frequent and direct contact with | |
| substance. | |
| Use suitable chemically resistant | |
| gloves. | |
| Exposure estimate and reference to i | |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker |
| | Worker - inhalation, long-term - local |
| Exposure estimate | 36.7292 mg/m³ |
| Risk Characterization Ratio (RCR) | 0.502039 |
| Assessment method | Qualitative assessment |
| | Worker - dermal |
| Guidance to Downstream Users | |
| For scaling see: http://www.ecetoc.org/t | ra |

| Contributing exposure scenario | |
|---|--|
| Use descriptors covered | PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: professional |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % |
| Physical state | liquid |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | 480 min 5 days per week |
| Indoor/Outdoor | Indoor |
| | Assumes activities are at ambient temperature. |
| Risk Management Measures | |

time to time.

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| Supervision in place to check that the RMMs in place are being used | |
|---|--|
| correctly and OCs followed. | |
| Personal measures have to be | |
| applied in case of potential exposure | |
| only. | |
| Use suitable eye protection. | |
| Avoid frequent and direct contact with | |
| substance. | |
| Use suitable chemically resistant | |
| gloves. | |
| Exposure estimate and reference to it | ts source |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker |
| | Worker - inhalation, long-term - local |
| Exposure estimate | 36.7292 mg/m³ |
| Risk Characterization Ratio (RCR) | 0.502039 |
| Assessment method | Qualitative assessment |
| | Worker - dermal |
| Guidance to Downstream Users | |
| For scaling see: http://www.ecetoc.org/t | ra |

| Contributing exposure scenario | |
|---|--|
| Use descriptors covered | PROC10: Roller application or brushing Use domain: professional |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % |
| Physical state | liquid |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | 480 min 5 days per week |
| Indoor/Outdoor | Indoor |
| | Assumes activities are at ambient temperature. |
| Risk Management Measures | |
| Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour) | Effectiveness: 30 % |
| Supervision in place to check that the RMMs in place are being used correctly and OCs followed. | |
| Personal measures have to be applied in case of potential exposure only. | |
| Use suitable eye protection. | |
| Avoid frequent and direct contact with | |
| substance. | |

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| Use suitable chemically resistant | |
|---|--|
| gloves. | |
| Exposure estimate and reference to its source | |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker |
| | Worker - inhalation, long-term - local |
| Exposure estimate | 64.276 mg/m ³ |
| Risk Characterization Ratio (RCR) | 0.878568 |
| Assessment method | Qualitative assessment |
| | Worker - dermal |
| Guidance to Downstream Users | |
| For scaling see: http://www.ecetoc.org/tra | |

| Contributing exposure scenario | |
|--|---|
| | PROC11: Non industrial spraying |
| Use descriptors covered | Use domain: professional |
| Operational conditions | |
| | To be archived: Reaction mass of 2-methylbutan-1-ol and |
| Concentration of the substance | pentan-1-ol |
| Concentration of the Substance | Content: >= 0 % - <= 100 % |
| Physical state | liquid |
| Vapour pressure of the substance | 414 Pa |
| during use | |
| Duration and Frequency of activity | 480 min 5 days per week |
| Indoor/Outdoor | Indoor |
| | Assumes activities are at ambient temperature. |
| | Large workrooms only |
| Application rate | < 3 l/min |
| Risk Management Measures | |
| Surface spraying with no or low | |
| compressed air use. | |
| Ensure medium level containment | |
| Ensure that general housekeeping is | |
| in place | |
| Provide a good standard of controlled | |
| ventilation (10 to 15 air changes per | |
| hour) | |
| Supervision in place to check that the | |
| RMMs in place are being used | |
| correctly and OCs followed. | |
| Use suitable eye protection. | |
| Avoid frequent and direct contact with | |
| substance. | |
| Use suitable chemically resistant | |
| gloves. | ite cource |
| Exposure estimate and reference to Assessment method | |
| Assessment method | EASY TRA v4.2, Advanced REACH Tool v1.5 Worker - inhalation, long-term - local |

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| Exposure estimate | 31 mg/m ³ |
|---|------------------------|
| Risk Characterization Ratio (RCR) | 0.423729 |
| Assessment method | Qualitative assessment |
| | Worker - dermal |
| Guidance to Downstream Users | |
| For scaling see: http://www.advancedreachtool.com | |

| Contributing exposure scenario | |
|---|---|
| Hara Incoming to the control of | PROC13: Treatment of articles by dipping and pouring. |
| Use descriptors covered | Use domain: professional |
| Operational conditions | |
| | To be archived: Reaction mass of 2-methylbutan-1-ol and |
| Concentration of the substance | pentan-1-ol |
| Consonitation of the substance | Content: >= 0 % - <= 100 % |
| Physical state | liquid |
| Vapour pressure of the substance | 414 Pa |
| during use | |
| Duration and Fraguency of activity | 480 min 5 days per week |
| Duration and Frequency of activity | |
| Indoor/Outdoor | Indoor |
| | Assumes activities are at ambient temperature. |
| Risk Management Measures | |
| Supervision in place to check that the | |
| RMMs in place are being used | |
| correctly and OCs followed. | |
| Personal measures have to be | |
| applied in case of potential exposure | |
| only. | |
| Use suitable eye protection. | |
| Avoid frequent and direct contact with | |
| substance. | |
| Use suitable chemically resistant | |
| gloves. | |
| Exposure estimate and reference to | its source |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker |
| | Worker - inhalation, long-term - local |
| Exposure estimate | 36.7292 mg/m³ |
| Risk Characterization Ratio (RCR) | 0.502039 |
| Assessment method | Qualitative assessment |
| | Worker - dermal |
| Guidance to Downstream Users | |
| For scaling see: http://www.ecetoc.org/ | tra |

| Contributing exposure scenario | |
|--------------------------------|---|
| Use descriptors covered | PROC19: Manual activities involving hand contact Use domain: professional |
| Operational conditions | |

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| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % | | |
|---|--|--|--|
| Physical state | liquid | | |
| Vapour pressure of the substance during use | 414 Pa | | |
| Duration and Frequency of activity | 480 min 5 days per week | | |
| Indoor/Outdoor | Indoor | | |
| | Assumes activities are at ambient temperature. | | |
| Risk Management Measures | | | |
| Wear suitable respiratory protection. | Effectiveness: 90 % | | |
| Supervision in place to check that the | | | |
| RMMs in place are being used | | | |
| correctly and OCs followed. | | | |
| Personal measures have to be | | | |
| applied in case of potential exposure only. | | | |
| Use suitable eye protection. | | | |
| Avoid frequent and direct contact with substance. | | | |
| Use suitable chemically resistant | | | |
| gloves. | | | |
| Exposure estimate and reference to | Exposure estimate and reference to its source | | |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker | | |
| | Worker - inhalation, long-term - local | | |
| Exposure estimate | 9.1823 mg/m³ | | |
| Risk Characterization Ratio (RCR) | 0.12551 | | |
| Assessment method | Qualitative assessment | | |
| | Worker - dermal | | |
| Guidance to Downstream Users | | | |
| For scaling see: http://www.ecetoc.org/t | ra | | |

10. Short title of exposure scenario

Use in laboratories, (use in professional settings)

ERC8a; PROC15

Control of exposure and risk management measures

| Contributing exposure scenario | |
|--------------------------------|--|
| Use descriptors covered | ERC8a: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed. |
| Operational conditions | |

* * * * * * * * * * * * * * * *

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BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from

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| Contributing exposure scenario | |
|--|---|
| g on poour of our or | PROC15: Use a laboratory reagent. |
| Use descriptors covered | Use domain: professional |
| • | • |
| Operational conditions | |
| | To be archived: Reaction mass of 2-methylbutan-1-ol and |
| Concentration of the substance | pentan-1-ol |
| Concentration of the cubotained | Content: >= 0 % - <= 100 % |
| Physical state | liquid |
| Vapour pressure of the substance | 414 Pa |
| during use | |
| | 480 min 5 days per week |
| Duration and Frequency of activity | |
| Indoor/Outdoor | Indoor |
| | Assumes activities are at ambient temperature. |
| Risk Management Measures | |
| Supervision in place to check that the | |
| RMMs in place are being used | |
| correctly and OCs followed. | |
| Personal measures have to be | |
| applied in case of potential exposure | |
| only. | |
| Use suitable eye protection. | |
| Avoid frequent and direct contact with | |
| substance. | |
| Use suitable chemically resistant | |
| gloves. | 40.0011100 |
| Exposure estimate and reference to i | |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - local |
| Exposure estimate | 18.3646 mg/m ³ |
| Risk Characterization Ratio (RCR) | 0.251019 |
| Assessment method | Qualitative assessment |
| 7.00000mont motilou | Worker - dermal |
| Guidance to Downstream Users | |
| For scaling see: http://www.ecetoc.org/tra | |

11. Short title of exposure scenario

Formulation & (re)packing of substances and mixtures ERC2; PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC15

Control of exposure and risk management measures

| Contributing exposure scenario | |
|--------------------------------|--|
| Use descriptors covered | ERC2: Formulation into mixture |
| | As no environmental hazard was identified no |

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| | environmental-related exposure assessment and risk characterization was performed. |
|------------------------|--|
| Operational conditions | |

| Contributing exposure scenario | | |
|---|--|--|
| Use descriptors covered | PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial | |
| Operational conditions | | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % | |
| Physical state | liquid | |
| Vapour pressure of the substance during use | 414 Pa | |
| Duration and Frequency of activity | 480 min 5 days per week | |
| Indoor/Outdoor | Indoor | |
| | Assumes activities are at ambient temperature. | |
| Risk Management Measures | | |
| Supervision in place to check that the RMMs in place are being used correctly and OCs followed. | | |
| Personal measures have to be applied in case of potential exposure only. | | |
| Use suitable eye protection. | | |
| Avoid frequent and direct contact with substance. | | |
| Use suitable chemically resistant gloves. | | |
| Exposure estimate and reference to it | | |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - local | |
| Exposure estimate | 0.0367 mg/m³ | |
| Risk Characterization Ratio (RCR) | 0.000502 | |
| Assessment method | Qualitative assessment | |
| | Worker - dermal | |
| Guidance to Downstream Users | | |
| For scaling see: http://www.ecetoc.org/t | ra | |

| Contributing exposure scenario | |
|--------------------------------|--|
| Use descriptors covered | PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial |

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| Operational conditions | |
|---|--|
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % |
| Physical state | liquid |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | 480 min 5 days per week |
| Indoor/Outdoor | Indoor |
| | Assumes activities are at ambient temperature. |
| Risk Management Measures | |
| Supervision in place to check that the RMMs in place are being used correctly and OCs followed. | |
| Personal measures have to be applied in case of potential exposure only. | |
| Use suitable eye protection. | |
| Avoid frequent and direct contact with substance. | |
| Use suitable chemically resistant gloves. | |
| Exposure estimate and reference to | its source |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker |
| | Worker - inhalation, long-term - local |
| Exposure estimate | 3.6729 mg/m³ |
| Risk Characterization Ratio (RCR) | 0.050204 |
| Assessment method | Qualitative assessment |
| | Worker - dermal |
| Guidance to Downstream Users | |
| For scaling see: http://www.ecetoc.org/t | ra |

| Contributing exposure scenario | |
|---|--|
| Use descriptors covered | PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: industrial |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % |
| Physical state | liquid |
| Vapour pressure of the substance during use | 414 Pa |

time to time.

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| Duration and Frequency of activity | 480 min 5 days per week |
|--|--|
| Indoor/Outdoor | Indoor |
| | Assumes activities are at ambient temperature. |
| Risk Management Measures | · |
| Supervision in place to check that the | |
| RMMs in place are being used | |
| correctly and OCs followed. | |
| Personal measures have to be | |
| applied in case of potential exposure | |
| only. | |
| Use suitable eye protection. | |
| Avoid frequent and direct contact with | |
| substance. | |
| Use suitable chemically resistant | |
| gloves. | |
| Exposure estimate and reference to i | |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker |
| | Worker - inhalation, long-term - local |
| Exposure estimate | 11.0188 mg/m³ |
| Risk Characterization Ratio (RCR) | 0.150612 |
| Assessment method | Qualitative assessment |
| | Worker - dermal |
| Guidance to Downstream Users | |
| For scaling see: http://www.ecetoc.org/t | ra |

| Contributing exposure scenario | |
|---|--|
| Use descriptors covered | PROC4: Chemical production where opportunity for exposure arises Use domain: industrial |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % |
| Physical state | liquid |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | 480 min 5 days per week |
| Indoor/Outdoor | Indoor |
| | Assumes activities are at ambient temperature. |
| Risk Management Measures | |
| Supervision in place to check that the RMMs in place are being used correctly and OCs followed. | |
| Personal measures have to be applied in case of potential exposure only. | |

time to time.

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| Use suitable eye protection. | |
|---|--|
| Avoid frequent and direct contact with | |
| substance. | |
| Use suitable chemically resistant | |
| gloves. | |
| Exposure estimate and reference to its source | |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker |
| | Worker - inhalation, long-term - local |
| Exposure estimate | 18.3646 mg/m³ |
| Risk Characterization Ratio (RCR) | 0.251019 |
| Assessment method | Qualitative assessment |
| | Worker - dermal |
| Guidance to Downstream Users | |
| For scaling see: http://www.ecetoc.org/tra | |

| Contributing exposure scenario | |
|---|--|
| Use descriptors covered | PROC5: Mixing or blending in batch processes Use domain: industrial |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % |
| Physical state | liquid |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | 480 min 5 days per week |
| Indoor/Outdoor | Indoor |
| | Assumes activities are at ambient temperature. |
| Risk Management Measures | |
| Supervision in place to check that the | |
| RMMs in place are being used | |
| correctly and OCs followed. | |
| Personal measures have to be | |
| applied in case of potential exposure only. | |
| Use suitable eye protection. | |
| Avoid frequent and direct contact with substance. | |
| Use suitable chemically resistant | |
| gloves. | |
| Exposure estimate and reference to its source | |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker |
| | Worker - inhalation, long-term - local |
| Exposure estimate | 18.3646 mg/m³ |
| Risk Characterization Ratio (RCR) | 0.251019 |
| Assessment method | Qualitative assessment |
| | Worker - dermal |

time to time.

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| Guidance to Downstream Users | |
|--|--|
| For scaling see: http://www.ecetoc.org/tra | |

| Contributing exposure scenario | | |
|---|--|--|
| Use descriptors covered | PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial | |
| Operational conditions | | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % | |
| Physical state | liquid | |
| Vapour pressure of the substance during use | 414 Pa | |
| Duration and Frequency of activity | 480 min 5 days per week | |
| Indoor/Outdoor | Indoor | |
| | Assumes activities are at ambient temperature. | |
| Risk Management Measures | | |
| Supervision in place to check that the RMMs in place are being used correctly and OCs followed. | | |
| Personal measures have to be applied in case of potential exposure only. | | |
| Use suitable eye protection. | | |
| Avoid frequent and direct contact with substance. | | |
| Use suitable chemically resistant gloves. | | |
| Exposure estimate and reference to its source | | |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker | |
| | Worker - inhalation, long-term - local | |
| Exposure estimate | 36.7292 mg/m³ | |
| Risk Characterization Ratio (RCR) | 0.502039 | |
| Assessment method | Qualitative assessment | |
| | Worker - dermal | |
| Guidance to Downstream Users | | |
| For scaling see: http://www.ecetoc.org/t | tra | |

| Contributing exposure scenario | |
|--------------------------------|--|
| Use descriptors covered | PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol |

time to time.

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| | Content: >= 0 % - <= 100 % |
|---|--|
| Physical state | liquid |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | 480 min 5 days per week |
| Indoor/Outdoor | Indoor |
| | Assumes activities are at ambient temperature. |
| Risk Management Measures | |
| Supervision in place to check that the | |
| RMMs in place are being used | |
| correctly and OCs followed. | |
| Personal measures have to be | |
| applied in case of potential exposure | |
| only. | |
| Use suitable eye protection. | |
| Avoid frequent and direct contact with | |
| substance. | |
| Use suitable chemically resistant | |
| gloves. | <u> </u> |
| Exposure estimate and reference to | |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker |
| F C | Worker - inhalation, long-term - local |
| Exposure estimate | 18.3646 mg/m³ |
| Risk Characterization Ratio (RCR) | 0.251019 |
| Assessment method | Qualitative assessment |
| | Worker - dermal |
| Guidance to Downstream Users | |
| For scaling see: http://www.ecetoc.org/t | ra |

| Contributing exposure scenario | |
|---|--|
| Use descriptors covered | PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % |
| Physical state | liquid |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | 480 min 5 days per week |
| Indoor/Outdoor | Indoor |
| | Assumes activities are at ambient temperature. |
| Risk Management Measures | |
| Supervision in place to check that the | |

time to time.

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| RMMs in place are being used | |
|--|--|
| correctly and OCs followed. | |
| Personal measures have to be | |
| applied in case of potential exposure | |
| only. | |
| Use suitable eye protection. | |
| Avoid frequent and direct contact with | |
| substance. | |
| Use suitable chemically resistant | |
| gloves. | |
| Exposure estimate and reference to | its source |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker |
| | Worker - inhalation, long-term - local |
| Exposure estimate | 18.3646 mg/m³ |
| Risk Characterization Ratio (RCR) | 0.251019 |
| Assessment method | Qualitative assessment |
| | Worker - dermal |
| Guidance to Downstream Users | |
| For scaling see: http://www.ecetoc.org/t | ira |

| Contributing exposure scenario | |
|---|--|
| Use descriptors covered | PROC15: Use a laboratory reagent. Use domain: industrial |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % |
| Physical state | liquid |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | 480 min 5 days per week |
| Indoor/Outdoor | Indoor |
| | Assumes activities are at ambient temperature. |
| Risk Management Measures | |
| Supervision in place to check that the RMMs in place are being used correctly and OCs followed. | |
| Personal measures have to be applied in case of potential exposure only. | |
| Use suitable eye protection. | |
| Avoid frequent and direct contact with substance. | |
| Use suitable chemically resistant gloves. | |
| Exposure estimate and reference to | its source |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker |

time to time.

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| | Worker - inhalation, long-term - local |
|--|--|
| Exposure estimate | 18.3646 mg/m³ |
| Risk Characterization Ratio (RCR) | 0.251019 |
| Assessment method | Qualitative assessment |
| | Worker - dermal |
| Guidance to Downstream Users | |
| For scaling see: http://www.ecetoc.org/tra | |

* * * * * * * * * * * * * * * *

12. Short title of exposure scenario

Manufacture of substance

ERC1; PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC15

Control of exposure and risk management measures

| Contributing exposure scenario | |
|--------------------------------|--|
| Use descriptors covered | ERC1: Manufacture of the substance As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed. |
| Operational conditions | |

| Contributing exposure scenario | | | |
|---|--|--|--|
| Use descriptors covered | PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial | | |
| Operational conditions | | | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % | | |
| Physical state | liquid | | |
| Vapour pressure of the substance during use | 414 Pa | | |
| Duration and Frequency of activity | 480 min 5 days per week | | |
| Indoor/Outdoor | Indoor | | |
| | Assumes activities are at ambient temperature. | | |
| Risk Management Measures | | | |
| Supervision in place to check that the | | | |
| RMMs in place are being used | | | |
| correctly and OCs followed. | | | |
| Use suitable eye protection. | | | |
| In case of potential exposure:, Use | | | |
| suitable chemically resistant gloves. | | | |
| Exposure estimate and reference to its source | | | |

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| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker |
|--|--|
| | Worker - inhalation, long-term - local |
| Exposure estimate | 0.0367 mg/m³ |
| Risk Characterization Ratio (RCR) | 0.000502 |
| Assessment method | Qualitative assessment |
| | Worker - dermal |
| Guidance to Downstream Users | |
| For scaling see: http://www.ecetoc.org/tra | |

| Contributing exposure scenario | | |
|---|--|--|
| Use descriptors covered | PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions Use domain: industrial | |
| Operational conditions | | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % | |
| Physical state | liquid | |
| Vapour pressure of the substance during use | 414 Pa | |
| Duration and Frequency of activity | 480 min 5 days per week | |
| Indoor/Outdoor | Indoor | |
| | Assumes activities are at ambient temperature. | |
| Risk Management Measures | | |
| Supervision in place to check that the RMMs in place are being used correctly and OCs followed. | | |
| Personal measures have to be applied in case of potential exposure only. | | |
| Use suitable eye protection. | | |
| Avoid frequent and direct contact with substance. | | |
| Use suitable chemically resistant gloves. | | |
| Exposure estimate and reference to its source | | |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - local | |
| Exposure estimate | 3.6729 mg/m³ | |
| Risk Characterization Ratio (RCR) | 0.050204 | |
| Assessment method | Qualitative assessment | |
| | Worker - dermal | |
| Guidance to Downstream Users | | |
| For scaling see: http://www.ecetoc.org/t | ra | |

Contributing exposure scenario

time to time.

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| Use descriptors covered | PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition Use domain: industrial |
|---|--|
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % |
| Physical state | liquid |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | 480 min 5 days per week |
| Indoor/Outdoor | Indoor |
| | Assumes activities are at ambient temperature. |
| Risk Management Measures | |
| Supervision in place to check that the RMMs in place are being used correctly and OCs followed. | |
| Personal measures have to be applied in case of potential exposure only. | |
| Use suitable eye protection. | |
| Avoid frequent and direct contact with substance. | |
| Use suitable chemically resistant gloves. | |
| Exposure estimate and reference to | its source |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker Worker - inhalation, long-term - local |
| Exposure estimate | 11.0188 mg/m³ |
| Risk Characterization Ratio (RCR) | 0.150612 |
| Assessment method | Qualitative assessment |
| | Worker - dermal |
| Guidance to Downstream Users | |
| For scaling see: http://www.ecetoc.org/t | tra |

| Contributing exposure scenario | |
|--------------------------------|--|
| Use descriptors covered | PROC4: Chemical production where opportunity for exposure arises Use domain: industrial |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % |

time to time.

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| Physical state | liquid |
|--|--|
| Vapour pressure of the substance | 414 Pa |
| during use | |
| Duration and Frequency of activity | 480 min 5 days per week |
| Indoor/Outdoor | Indoor |
| | Assumes activities are at ambient temperature. |
| Risk Management Measures | |
| Supervision in place to check that the | |
| RMMs in place are being used | |
| correctly and OCs followed. | |
| Personal measures have to be | |
| applied in case of potential exposure | |
| only. | |
| Use suitable eye protection. | |
| Avoid frequent and direct contact with | |
| substance. | |
| Use suitable chemically resistant | |
| gloves. | |
| Exposure estimate and reference to i | |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker |
| | Worker - inhalation, long-term - local |
| Exposure estimate | 18.3646 mg/m³ |
| Risk Characterization Ratio (RCR) | 0.251019 |
| Assessment method | Qualitative assessment |
| | Worker - dermal |
| Guidance to Downstream Users | |
| For scaling see: http://www.ecetoc.org/t | ra |

| Contributing exposure scenario | |
|---|--|
| Use descriptors covered | PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % |
| Physical state | liquid |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | 480 min 5 days per week |
| Indoor/Outdoor | Indoor |
| | Assumes activities are at ambient temperature. |
| Risk Management Measures | |
| Supervision in place to check that the | |
| RMMs in place are being used | |
| correctly and OCs followed. | |

time to time.

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| Personal measures have to be applied in case of potential exposure only. | | |
|--|--|--|
| Use suitable eye protection. | | |
| Avoid frequent and direct contact with | | |
| substance. | | |
| Use suitable chemically resistant | | |
| gloves. | | |
| Exposure estimate and reference to its source | | |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker | |
| | Worker - inhalation, long-term - local | |
| Exposure estimate | 36.7292 mg/m ³ | |
| Risk Characterization Ratio (RCR) | 0.502039 | |
| Assessment method | Qualitative assessment | |
| | Worker - dermal | |
| Guidance to Downstream Users | | |
| For scaling see: http://www.ecetoc.org/t | ra | |

| Contributing exposure scenario | |
|---|--|
| Use descriptors covered | PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial |
| Operational conditions | L |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % |
| Physical state | liquid |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | 480 min 5 days per week |
| Indoor/Outdoor | Indoor |
| | Assumes activities are at ambient temperature. |
| Risk Management Measures | |
| Supervision in place to check that the RMMs in place are being used correctly and OCs followed. | |
| Personal measures have to be applied in case of potential exposure only. | |
| Use suitable eye protection. | |
| Avoid frequent and direct contact with substance. | |
| Use suitable chemically resistant gloves. | |
| Exposure estimate and reference to its source | |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker |
| | Worker - inhalation, long-term - local |

time to time.

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| Exposure estimate | 18.3646 mg/m³ |
|--|------------------------|
| Risk Characterization Ratio (RCR) | 0.251019 |
| Assessment method | Qualitative assessment |
| | Worker - dermal |
| Guidance to Downstream Users | |
| For scaling see: http://www.ecetoc.org/tra | |

| Contributing exposure scenario | |
|---|--|
| Use descriptors covered | PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing). Use domain: industrial |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % |
| Physical state | liquid |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | 480 min 5 days per week |
| Indoor/Outdoor | Indoor |
| | Assumes activities are at ambient temperature. |
| Risk Management Measures | |
| Supervision in place to check that the | |
| RMMs in place are being used | |
| correctly and OCs followed. | |
| Personal measures have to be | |
| applied in case of potential exposure | |
| only. | |
| Use suitable eye protection. | |
| Avoid frequent and direct contact with | |
| substance. | |
| Use suitable chemically resistant | |
| gloves. | |
| Exposure estimate and reference to | |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker |
| | Worker - inhalation, long-term - local |
| Exposure estimate | 18.3646 mg/m³ |
| Risk Characterization Ratio (RCR) | 0.251019 |
| Assessment method | Qualitative assessment |
| | Worker - dermal |
| Guidance to Downstream Users | |
| For scaling see: http://www.ecetoc.org/ | tra |

| Contributing exposure scenario | |
|--------------------------------|--|
| Use descriptors covered | PROC15: Use a laboratory reagent. Use domain: industrial |

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| Operational conditions | |
|---|--|
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 100 % |
| Physical state | liquid |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | 480 min 5 days per week |
| Indoor/Outdoor | Indoor |
| | Assumes activities are at ambient temperature. |
| Risk Management Measures | |
| Supervision in place to check that the RMMs in place are being used correctly and OCs followed. | |
| Personal measures have to be applied in case of potential exposure only. | |
| Use suitable eye protection. | |
| Avoid frequent and direct contact with substance. | |
| Use suitable chemically resistant gloves. | |
| Exposure estimate and reference to it | ts source |
| Assessment method | EASY TRA v4.2, ECETOC TRA v3.0, Worker |
| | Worker - inhalation, long-term - local |
| Exposure estimate | 18.3646 mg/m³ |
| Risk Characterization Ratio (RCR) | 0.251019 |
| Assessment method | Qualitative assessment |
| | Worker - dermal |
| Guidance to Downstream Users | |
| For scaling see: http://www.ecetoc.org/t | ra |

13. Short title of exposure scenario

Use in Cleaning Agents, (consumer use)

ERC8a, ERC8d; PC3, PC4, PC9c, PC24, PC32, PC35, PC38

Control of exposure and risk management measures

| Contributing exposure scenario | |
|--------------------------------|--|
| Use descriptors covered | ERC8a: Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed. |
| Operational conditions | |

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| Contributing exposure scenario | |
|--------------------------------|---|
| Use descriptors covered | ERC8d: Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed. |
| Operational conditions | |

| Contributing exposure scenario | |
|---|---|
| Use descriptors covered | PC3_1: Subcategory: Air care, instant action (aerosol sprays) |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 10 % |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | Exposure duration: 240 min Relevant for inhalative exposure estimates |
| Duration and Frequency of activity | 90 uses per year |
| Room size | 58 m3 |
| Ventilation rate per hour | 0.5 |
| body weight | 65 kg |
| Spray duration | 19.8 sec |
| Risk Management Measures | |
| Consumer Measures | Ensure spraying away from persons. |
| Exposure estimate and reference to | its source |
| Assessment method | EASY TRA v4.2, ConsExpo v4.1, Inhalation model: Exposure to spray/dust |
| | Consumer - inhalation, long-term - systemic |
| Exposure estimate | 0.0406 mg/m³ |
| Risk Characterization Ratio (RCR) | 0.003123 |
| | The exposure calculation is based on the mean concentration on the day of exposure. |
| Guidance to Downstream Users | Toonochitation on the day of exposure. |
| | healthanddisease/productsafety/ConsExpo.jsp |
| Tor ocaming occ. http://www.nvminin/cn/ | Hodithariadiocaco/productodroty/OchioExpoljop |

| Contributing exposure scenario | |
|--------------------------------|---|
| Use descriptors covered | PC4: Anti-Freeze and De-icing products. |
| Operational conditions | |
| | To be archived: Reaction mass of 2-methylbutan-1-ol and |
| Concentration of the substance | pentan-1-ol |
| | Content: >= 0 % - <= 1 % |

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| Vapour pressure of the substance during use | 414 Pa |
|---|--|
| Duration and Frequency of activity | Exposure duration: 1.2 min Relevant for inhalative exposure estimates |
| Duration and Frequency of activity | Application duration: 20 min Relevant for inhalative exposure estimates |
| Room size | 34 m3 |
| Ventilation rate per hour | 1.5 |
| Temperature (Application) | 20 °C |
| body weight | 65 kg |
| Release area | 60000 cm ² |
| | Release area is constant |
| Release duration | 20 min |
| | Relevant for inhalative exposure estimates |
| Exposure estimate and reference to | o its source |
| Assessment method | EASY TRA v4.2, ConsExpo v4.1, Inhalation model: exposure to vapour - evaporation |
| | Consumer - inhalation, short-term - systemic |
| Exposure estimate | 0.1409 mg/m ³ |
| Risk Characterization Ratio (RCR) | 0.000647 |
| | The exposure calculation is based on a single use of the product. |
| Guidance to Downstream Users | |
| For scaling see: http://www.rivm.nl/en/ | /healthanddisease/productsafety/ConsExpo.jsp |

| Contributing exposure scenario | |
|---|--|
| Use descriptors covered | PC4: Anti-Freeze and De-icing products. |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 3 % |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | Exposure duration: 10.2 min Relevant for inhalative exposure estimates |
| Duration and Frequency of activity | Application duration: 5 min Relevant for inhalative exposure estimates |
| Room size | 34 m3 |
| Ventilation rate per hour | 1.5 |
| Temperature (Application) | 20 °C |
| body weight | 65 kg |
| Release area | 100 cm ² |
| | Release area is constant |
| Release duration | 5 min |
| | Relevant for inhalative exposure estimates |

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| Exposure estimate and reference to its source | |
|--|--|
| Assessment method | EASY TRA v4.2, ConsExpo v4.1, Inhalation model: |
| | exposure to vapour - evaporation |
| Consumer - inhalation, short-term - systemic | |
| Exposure estimate | 81.3051 mg/m ³ |
| Risk Characterization Ratio (RCR) | 0.372959 |
| | The exposure calculation is based on a single use of the |
| | product. |
| Guidance to Downstream Users | |
| For scaling see: http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp | |

| Contributing exposure scenario | |
|---|---|
| Use descriptors covered | PC4: Anti-Freeze and De-icing products. |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 10 % |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | Exposure duration: 15 min Relevant for inhalative exposure estimates |
| Room size | 34 m3 |
| Ventilation rate per hour | 1.5 |
| body weight | 65 kg |
| Spray duration | 900 sec |
| Risk Management Measures | |
| Consumer Measures | Ensure spraying away from persons. |
| Exposure estimate and reference to | its source |
| Assessment method | EASY TRA v4.2, ConsExpo v4.1, Inhalation model: Exposure to spray/dust |
| | Consumer - inhalation, short-term - systemic |
| Exposure estimate | 5.1461 mg/m³ |
| Risk Characterization Ratio (RCR) | 0.023606 |
| | The exposure calculation is based on a single use of the product. |
| Guidance to Downstream Users | |
| For scaling see: http://www.rivm.nl/en/ | healthanddisease/productsafety/ConsExpo.jsp |

| Contributing exposure scenario | |
|----------------------------------|--|
| Use descriptors covered | PC9c: Finger paints |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 9 % |
| Vapour pressure of the substance | 414 Pa |

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| during use | |
|--|--|
| Duration and Frequency of activity | 365 uses per year |
| body weight | 16.3 kg |
| Uptake fraction oral | 100 % |
| | Amount ingested 1.35 g Relevant for oral exposure |
| | estimates |
| Exposure estimate and reference to its source | |
| Assessment method | EASY TRA v4.2, ConsExpo v4.1, Oral model: direct intake, |
| Assessmentmethod | Uptake model: Uptake fraction |
| | Consumer - oral, long-term - systemic |
| Exposure estimate | 7.454 mg/kg bw/day |
| Risk Characterization Ratio (RCR) | 0.596319 |
| | The calculation is based on the internal chronic dose. |
| Guidance to Downstream Users | |
| For scaling see: http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp | |

| Contributing exposure scenario | |
|--|---|
| Use descriptors covered | PC13_1, PC24_1: Subcategory: Liquids |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 10 % |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | Exposure duration: 60 min Relevant for inhalative exposure estimates |
| Duration and Frequency of activity | 1 uses per year |
| body weight | 65 kg |
| Release duration | 60 min |
| | Relevant for inhalative exposure estimates |
| Exposure estimate and reference to | its source |
| Assessment method | EASY TRA v4.2, ConsExpo v4.1, Inhalation model: exposure to vapour - constant rate |
| Evenous estimate | Consumer - inhalation, long-term - systemic |
| Exposure estimate | 8.6096 mg/m³ |
| Risk Characterization Ratio (RCR) | The exposure calculation is based on the mean concentration on the day of exposure. |
| Guidance to Downstream Users | |
| For scaling see: http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp | |

| Contributing exposure scenario | |
|--------------------------------|-----------------------------|
| Use descriptors covered | PC24_2: Subcategory: Pastes |

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| Operational conditions | |
|--|---|
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 10 % |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | Exposure duration: 60 min Relevant for inhalative exposure estimates |
| Duration and Frequency of activity | 1 uses per year |
| Room size | 20 m3 |
| Ventilation rate per hour | 0.6 |
| body weight | 65 kg |
| | Amount per use 30 g Relevant for inhalative exposure estimates |
| Exposure estimate and reference to | its source |
| Assessment method | EASY TRA v4.2, ConsExpo v4.1, Inhalation model: evaporation model - instantaneous release |
| | Consumer - inhalation, long-term - systemic |
| Exposure estimate | 4.7003 mg/m ³ |
| Risk Characterization Ratio (RCR) | 0.361559 |
| | The exposure calculation is based on the mean |
| | concentration on the day of exposure. |
| Guidance to Downstream Users | |
| For scaling see: http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp | |

| Contributing exposure scenario | |
|---|--|
| Use descriptors covered | PC32: Polymer Preparations and Compounds. |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 3 % |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | Exposure duration: 45 min Relevant for inhalative exposure estimates |
| Room size | 57.5 m3 |
| Ventilation rate per hour | 1.5 |
| body weight | 65 kg |
| | Amount per use 550 g Relevant for inhalative exposure estimates |
| Exposure estimate and reference to its source | |
| Assessment method | EASY TRA v4.2, ConsExpo v4.1, Inhalation model: evaporation model - instantaneous release |

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| | Consumer - inhalation, short-term - systemic |
|--|--|
| Exposure estimate | 172.2984 mg/m³ |
| Risk Characterization Ratio (RCR) | 0.79036 |
| | The exposure calculation is based on a single use of the |
| | product. |
| Guidance to Downstream Users | |
| For scaling see: http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp | |

| Contributing exposure scenario | |
|--|--|
| Use descriptors covered | PC8_1, PC35_1: Subcategory: Laundry and dish washing products |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 5 % |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | Exposure duration: 60 min Relevant for inhalative exposure estimates |
| Duration and Frequency of activity | Application duration: 16 min Relevant for inhalative exposure estimates |
| Duration and Frequency of activity | 426 uses per year |
| Room size | 15 m3 |
| Ventilation rate per hour | 2.5 |
| Temperature (Application) | 45 °C |
| body weight | 65 kg |
| Release area | 0.15 cm ² |
| | Release area is constant |
| Release duration | 16 min |
| | Relevant for inhalative exposure estimates |
| Exposure estimate and reference to | |
| Assessment method | EASY TRA v4.2, ConsExpo v4.1, Inhalation model: exposure to vapour - evaporation |
| | Consumer - inhalation, long-term - systemic |
| Exposure estimate | 0.1627 mg/m³ |
| Risk Characterization Ratio (RCR) | 0.012516 |
| | The exposure calculation is based on the mean concentration on the day of exposure. |
| Guidance to Downstream Users | |
| For scaling see: http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp | |

| Contributing exposure scenario | |
|--------------------------------|--|
| Use descriptors covered | PC8_3, PC35_3: Subcategory: Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners) |
| Operational conditions | |

time to time.

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| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 10 % | |
|---|---|--|
| Vapour pressure of the substance during use | 414 Pa | |
| Duration and Frequency of activity | Exposure duration: 60 min Relevant for inhalative exposure estimates | |
| Duration and Frequency of activity | 365 uses per year | |
| Room size | 15 m3 | |
| Ventilation rate per hour | 2.5 | |
| body weight | 65 kg | |
| Spray duration | 24.6 sec | |
| Risk Management Measures | | |
| Consumer Measures | Ensure spraying away from persons. | |
| Exposure estimate and reference to | its source | |
| Assessment method | EASY TRA v4.2, ConsExpo v4.1, Inhalation model: Exposure to spray/dust | |
| | Consumer - inhalation, long-term - systemic | |
| Exposure estimate | 0.0001 mg/m ³ | |
| Risk Characterization Ratio (RCR) | 0.000002 | |
| | The exposure calculation is based on the mean concentration on the day of exposure. | |
| Guidance to Downstream Users | | |
| For scaling see: http://www.rivm.nl/en/ | healthanddisease/productsafety/ConsExpo.jsp | |

| Contributing exposure scenario | |
|---|--|
| Use descriptors covered | PC8_2, PC35_2: Subcategory: Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners) |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 5 % |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | Exposure duration: 240 min Relevant for inhalative exposure estimates |
| Duration and Frequency of activity | Application duration: 20 min Relevant for inhalative exposure estimates |
| Duration and Frequency of activity | 365 uses per year |
| Room size | 58 m3 |
| Ventilation rate per hour | 0.5 |
| Temperature (Application) | 20 °C |
| body weight | 65 kg |

time to time.

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| Release area | 100000 cm ² |
|--|---|
| | Release area increases over time |
| Release duration | 20 min |
| | Relevant for inhalative exposure estimates |
| Exposure estimate and reference to its source | |
| Assessment method | EASY TRA v4.2, ConsExpo v4.1, Inhalation model: |
| Assessment method | exposure to vapour - evaporation |
| | Consumer - inhalation, long-term - systemic |
| Exposure estimate | 1.6526 mg/m³ |
| Risk Characterization Ratio (RCR) | 0.127122 |
| | The exposure calculation is based on the mean |
| | concentration on the day of exposure. |
| Guidance to Downstream Users | |
| For scaling see: http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp | |

| Contributing exposure scenario | |
|---|---|
| Use descriptors covered | PC38: Welding and soldering products, flux products. |
| Operational conditions | |
| Concentration of the substance | To be archived: Reaction mass of 2-methylbutan-1-ol and pentan-1-ol Content: >= 0 % - <= 10 % |
| Vapour pressure of the substance during use | 414 Pa |
| Duration and Frequency of activity | Exposure duration: 60 min Relevant for inhalative exposure estimates |
| Duration and Frequency of activity | 365 uses per year |
| Room size | 20 m3 |
| Ventilation rate per hour | 0.6 |
| body weight | 65 kg |
| | Amount per use 12 g Relevant for inhalative exposure estimates |
| Exposure estimate and reference to | |
| Assessment method | EASY TRA v4.2, ConsExpo v4.1, Inhalation model: evaporation model - instantaneous release |
| | Consumer - inhalation, long-term - systemic |
| Exposure estimate | 1.8801 mg/m³ |
| Risk Characterization Ratio (RCR) | 0.144624 |
| | The exposure calculation is based on the mean |
| | concentration on the day of exposure. |
| Guidance to Downstream Users | |
| For scaling see: http://www.rivm.nl/en | /healthanddisease/productsafety/ConsExpo.jsp |

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