

Safety data sheet

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BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 08.10.2025

Version: 4.0

Date / Previous version: 06.09.2023

Previous version: 3.0

Product: **n-BUTYL ACETATE**

(ID no. 30034818/SDS_GEN_DE/EN)

Date of print 09.10.2025

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

1.1. Product identifier

n-BUTYL ACETATE

Chemical name: n-Butyl acetate

INDEX-Number: 607-025-00-1

CAS Number: 123-86-4

REACH registration number: 01-2119485493-29-0007, 01-2119485493-29-0005, 01-2119485493-29-0004, 01-2119485493-29-0003, 01-2119485493-29-0065, 01-2119485493-29

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

Relevant identified uses: solvent(s)

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

Operating Division Petrochemicals

Telephone: +49 621 60-42151

E-mail address: sds-petrochemicals@basf.com

1.4. Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

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SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

According to Regulation (EC) No 1272/2008 [CLP]

Flam. Liq. 3

H226 Flammable liquid and vapour.

STOT SE 3

H336 May cause drowsiness or dizziness.

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 Regulation (EC) No 1272/2008 [CLP]

Pictogram:



Signal Word:

Warning

Hazard Statement:

H226

Flammable liquid and vapour.

H336

May cause drowsiness or dizziness.

Precautionary Statements (Prevention):

P271

Use only outdoors or in a well-ventilated area.

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280

Wear protective gloves and eye protection or face protection.

Precautionary Statements (Response):

P312

Call a POISON CENTER or physician if you feel unwell.

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.

2.3. Other hazards

According to Regulation (EC) No 1272/2008 [CLP]

Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

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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

n-butyl acetate

Content (W/W): $\geq 99,5 \%$

CAS Number: 123-86-4

EC-Number: 204-658-1

INDEX-Number: 607-025-00-1

Flam. Liq. 3

STOT SE 3 (drowsiness and dizziness)

H226, H336

EUH066

Substance with EU occupational exposure limit

Regulatory relevant ingredients

n-butyl acetate

Content (W/W): $\geq 75 \%$ - $\leq 100 \%$

CAS Number: 123-86-4

EC-Number: 204-658-1

INDEX-Number: 607-025-00-1

Flam. Liq. 3

STOT SE 3 (drowsiness and dizziness)

H226, H336

EUH066

Substance with EU occupational exposure limit

butan-1-ol

Content (W/W): $\geq 0,1 \%$ - $< 0,2 \%$

CAS Number: 71-36-3

EC-Number: 200-751-6

INDEX-Number: 603-004-00-6

Flam. Liq. 3

Acute Tox. 4 (oral)

Skin Irrit. 2

Eye Dam. 1

STOT SE 3 (drowsiness and dizziness)

Substance with EU occupational exposure limit

STOT SE 3 (irr. to respiratory syst.)

H226, H318, H315, H302, H336, H335

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

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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:

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.

Hazards: Danger of drowsiness and dizziness.

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.

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing media

Suitable extinguishing media:

dry powder, water spray, carbon dioxide, alcohol-resistant foam

Unsuitable extinguishing media for safety reasons:

water jet

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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.

Electrical devices must meet the specified temperature class.

Temperature class: T2 (Autoignition temperature >300 °C).

7.2. Conditions for safe storage, including any incompatibilities

Further information on storage conditions: Keep container tightly closed in a cool, well-ventilated place.

Storage class according to TRGS 510 (originally VCI, Germany): (3) Flammable liquids

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

The surveillance of the workplace by exposure measurements may be necessary, in order to prove the efficiency of safety measures, for example ventilation or the need of respiratory protection. Since this requires a specific competency, only accredited laboratories should be contracted. Regarding suitable methods to assess inhalation exposure, the European Standards EN 482, 689 and 14042 are to be considered. In addition, the TRGS 402 has to be observed in Germany.

71-36-3: butan-1-ol

OEL 310 mg/m³ ; 100 ppm (TRGS 900 (DE))

Ceiling limit value/factor: 1

If the occupational exposure limit value (AGW) and the biological limit value (BGW) are complied with, there should be no risk of damage for the unborn child (see TRGS 900, Number 2.7)

Short Term Exposure Classification: (TRGS 900 (DE))

Category I: Substances for which the localized effect has an assigned exposure limit or for substances with a sensitizing effect in respiratory passages

(EU SCOEL)

Included in the regulation, but with no data values - See the regulation for further details

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123-86-4: n-butyl acetate

Short Term Exposure Classification: (TRGS 900 (DE))

Category II: Substances with a resorptive effect

OEL 300 mg/m³ ; 62 ppm (TRGS 900 (DE))

Ceiling limit value/factor: 2

If the occupational exposure limit value (AGW) and the biological limit value (BGW) are complied with, there should be no risk of damage for the unborn child (see TRGS 900, Number 2.7)

STEL value 723 mg/m³ ; 150 ppm (OEL (EU))

indicative

TWA value 241 mg/m³ ; 50 ppm (OEL (EU))

indicative

(EU SCOEL)

Included in the regulation, but with no data values - See the regulation for further details

Components with biological limit values

71-36-3: butan-1-ol

TRGS 903 (DE)

Determinant: 1-Butanol (with hydrolysis)

Biological Specimen: Urine

Sampling time: End of the work week

Concentration: 10 mg/g Creatinine

TRGS 903 (DE)

Determinant: 1-Butanol (with hydrolysis)

Biological Specimen: Urine

Sampling time: Before the next shift.

Concentration: 2 mg/g Creatinine

PNEC

freshwater: 0,18 mg/l

marine water: 0,018 mg/l

intermittent release: 0,36 mg/l

STP: 35,6 mg/l

sediment (freshwater): 0,981 mg/kg

sediment (marine water): 0,0981 mg/kg

soil: 0,0903 mg/kg

DNEL

worker:

Short-term exposure - local effects, Inhalation: 600 mg/m³

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worker:

Long-term exposure - local effects, Inhalation: 300 mg/m³

consumer:

Short-term exposure - local effects, Inhalation: 300 mg/m³

consumer:

Long-term exposure - local effects, Inhalation: 35,7 mg/m³

worker:

Long-term exposure- systemic effects, dermal: 11 mg/kg

worker:

Short-term exposure - systemic effects, dermal: 11 mg/kg

consumer:

Long-term exposure- systemic effects, dermal: 6 mg/kg

consumer:

Short-term exposure - systemic effects, dermal: 6 mg/kg

consumer:

Long-term exposure- systemic effects, oral: 2 mg/kg

consumer:

Short-term exposure - systemic effects, oral: 2 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 for short-term contact (recommended: At least protective index 2, corresponding > 30 minutes of permeation time according to EN ISO 374-1)

butyl rubber (butyl) - 0.7 mm coating thickness

Manufacturer's directions for use should be observed because of great diversity of types.

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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:

Safety glasses with side-shields (frame 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

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is required additionally to the stated personal protection equipment. Avoid inhalation.

Environmental exposure controls

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

State of matter:	liquid	
Form:	liquid	
Colour:	colourless	
Odour:	fruity	
Odour threshold:	not determined	
Melting point:	-78 °C	
Boiling point:	Literature data. 124 - 126,5 °C (1.013 hPa)	
Flammability:	Literature data. Flammable.	(derived from flash point)
Lower explosion limit:	For liquids not relevant for classification and labelling., The lower explosion point may be 5 - 15 °C below the flash point.	
Upper explosion limit:	For liquids not relevant for classification and labelling.	
Flash point:	27 °C	(Directive 92/69/EEC, A.9, closed cup)

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Auto-ignition temperature:	415 °C	(DIN 51794)
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.	
pH value:		
Viscosity, kinematic:	not applicable 0,83 mm ² /s (20 °C)	(OECD Guideline 114)
Thixotropy:	not thixotropic	
Solubility in water:	pH 6 5,3 g/l (20 °C)	(Directive 92/69/EEC, A.6)
Solubility (qualitative) solvent(s):	organic solvents soluble	
Partitioning coefficient n-octanol/water (log K _{ow}):	2,3 (25 °C; pH value: 7)	(OECD Guideline 117)
Vapour pressure:	15 hPa (20 °C) Extrapolated value, static	(measured)
Relative density:	0,8813 (20 °C) Literature data.	
Density:	0,8812 g/cm ³ (20 °C) 0,54 g/cm ³ (55 °C)	(DIN 51757)
Relative vapour density (air):	4 (20 °C) Heavier than air.	(calculated)

Particle characteristics

Particle size distribution: The substance / product is marketed or used in a non solid or granular form. -

9.2. Other information

Information with regard to physical hazard classes

Explosives

Explosion hazard: not explosive

Impact sensitivity:

Based on the chemical structure there is no shock-sensitivity.

Oxidizing properties

Fire promoting properties: not fire-propagating

Flammable liquids

Sustained combustibility:

not determined

Pyrophoric properties

Self-ignition temperature:

Test type: Spontaneous self-ignition at room-temperature.

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Based on its structural properties the product is not classified as self-igniting.

Self-heating substances and mixtures

Self heating ability: It is not a substance capable of spontaneous heating.

Substances and mixtures, which emit flammable gases in contact with water

Formation of flammable gases: Forms no flammable gases in the presence of water.

Corrosion to metals

No corrosive effect on metal.

Other safety characteristics

pKA:

Study technically not feasible.

Adsorption/water - soil: KOC: 18,54; log KOC: 1,27 (calculated)

Surface tension:

Based on chemical structure, surface activity is not to be expected.

Molar mass:

116,16 g/mol

SAPT-Temperature:

Study scientifically not justified.

Evaporation rate:

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

SECTION 10: Stability and Reactivity

10.1. Reactivity

When heated can give off ignitable vapours.

Corrosion to metals: No corrosive effect on metal.

Formation of flammable gases: Remarks: Forms no flammable gases in the presence of water.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

Reacts with strong oxidizing agents.

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10.4. Conditions to avoid

Avoid sources of ignition.

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 hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Assessment of acute toxicity:

Virtually nontoxic after a single ingestion. Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact.

Experimental/calculated data:

LD50 rat (oral): 10.736 mg/kg (other)

LC50 rat (by inhalation): > 21,1 mg/l 4 h (OECD Guideline 403)

The vapour was tested.

LC0 rat (by inhalation): > 38,32 mg/l > 8000 ppm 6 h (other)

The vapour was tested.

LD50 rabbit (dermal): > 14.000 mg/kg (other)

Irritation

Assessment of irritating effects:

Not irritating to the skin. Not irritating to the eyes.

Experimental/calculated data:

Skin corrosion/irritation

rabbit: non-irritant (OECD Guideline 404)

Serious eye damage/irritation

rabbit: non-irritant (OECD Guideline 405)

Respiratory/Skin sensitization

Assessment of sensitization:

Skin sensitizing effects were not observed in animal studies.

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Experimental/calculated data:

Guinea pig maximization test guinea pig: Non-sensitizing. (other)

Germ cell mutagenicity

Assessment of mutagenicity:

No mutagenic effect was found in various tests with microorganisms and mammalian cell culture. The substance was not mutagenic in studies with mammals.

Carcinogenicity

Assessment of carcinogenicity:

Study does not need to be conducted.

Reproductive toxicity

Assessment of reproduction toxicity:

The results of animal studies gave no indication of a fertility impairing effect.

Developmental toxicity

Assessment of teratogenicity:

Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

Experiences in humans

Experimental/calculated data:

High concentrations have a narcotizing effect.

Prolonged contact can result in drying of the skin.

Specific target organ toxicity (single exposure)

Assessment of STOT single:

Possible narcotic effects (drowsiness or dizziness).

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

Assessment of repeated dose toxicity:

After repeated exposure the prominent effect is local irritation.

Aspiration hazard

No aspiration hazard expected.

Interactive effects

No data available.

11.2. Information on other hazards

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Endocrine disrupting properties

The substance is not identified to have endocrine disrupting properties according to Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 nor is included in the Candidate List of substances of very high concern according to EU REACH Article 59 for having endocrine disrupting properties.

Other information

Other relevant toxicity information

Has a degreasing effect on skin.

SECTION 12: Ecological Information

12.1. Toxicity

Assessment of aquatic toxicity:

Acutely harmful for 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) 18 mg/l, *Pimephales promelas* (Fish test acute, Flow through.)

The statement of the toxic effect relates to the analytically determined concentration.

Aquatic invertebrates:

EC50 (48 h) 44 mg/l, *Daphnia* sp. (*Daphnia* test acute, static)

Nominal concentration.

Aquatic plants:

EC50 (72 h) 397 mg/l (growth rate), *Pseudokirchneriella subcapitata* (DIN 38412 Part 9)

The statement of the toxic effect relates to the analytically determined concentration. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Microorganisms/Effect on activated sludge:

EC50 (40 h) 356 mg/l, *Tetrahymena pyriformis* (internal method, aquatic)

Chronic toxicity to fish:

No data available.

Chronic toxicity to aquatic invertebrates:

No observed effect concentration (21 d) 23 mg/l, *Daphnia magna* (OECD Guideline 211, semistatic)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Assessment of terrestrial toxicity:

No toxic effects have been observed in studies with terrestrial plants.

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Soil living organisms:
No data available.

Terrestrial plants:
EC50 (14 d) > 1.000 mg/kg > 1.000 mg/kg, Lactuca sativa (OECD Guideline 208)

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:
80 % BOD of the ThOD (5 d) (OECD 301D; 92/69/EEG, C.4-E) (aerobic, municipal sewage treatment plant effluent)

Assessment of stability in water:
In contact with water the substance will hydrolyse slowly.

Information on Stability in Water (Hydrolysis):
 $t_{1/2}$ 782 d, (calculated, pH 7)

12.3. Bioaccumulative potential

Assessment bioaccumulation potential:
No significant accumulation in organisms is expected as a result of the distribution coefficient of n-octanol/water (log Pow).

Bioaccumulation potential:
No data available.

12.4. Mobility in soil

Assessment transport between environmental compartments:
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

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12.6. Endocrine disrupting properties

The substance is not identified to have endocrine disrupting properties according to Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 nor is included in the Candidate List of substances of very high concern according to EU REACH Article 59 for having endocrine disrupting properties.

12.7. Other adverse effects

Results of PMT and vPvM assessment

Substance is not included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having PMT/vPvM properties.

Additional information

Adsorbable organically-bound halogen (AOX):
This product contains no organically-bound halogen.

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

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

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: UN1123
UN proper shipping name: BUTYL ACETATES

Transport hazard class(es): 3
Packing group: III
Environmental hazards: no
Special precautions for user: Tunnel code: D/E

RID

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UN number or ID number: UN1123
UN proper shipping name: BUTYL ACETATES

Transport hazard class(es): 3
Packing group: III
Environmental hazards: no
Special precautions for user: None known

Inland waterway transport

ADN

UN number or ID number: UN1123
UN proper shipping name: BUTYL ACETATES

Transport hazard class(es): 3
Packing group: III
Environmental hazards: no
Special precautions for user: None known

Transport in inland waterway vessel

UN number or ID number: UN1123
UN proper shipping name: BUTYLACETATES (n-BUTYLACETATE)

Transport hazard class(es): 3, N3
Packing group: III
Environmental hazards: yes
Type of inland waterway vessel: N
Cargo tank design: 3
Cargo tank type: 2

Sea transport

IMDG

UN number or ID number: UN 1123
UN proper shipping name: BUTYL ACETATES

Transport hazard class(es): 3
Packing group: III
Environmental hazards: no
Marine pollutant: NO
Special precautions for user: EmS: F-E; S-D

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Air transport

IATA/ICAO

UN number or ID number: UN 1123
UN proper shipping name: BUTYL ACETATES

Transport hazard class(es): 3
Packing group: III
Environmental hazards: No Mark as dangerous for the environment is needed
Special precautions for user: None known

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: Butyl acetate (all isomers)
Pollution category: Y
Ship Type: 3

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SECTION 15: Regulatory Information

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

Prohibitions, Restrictions and Authorizations

Annex XVII of Regulation (EC) No 1907/2006: Number on List: 3, 40, 75

Hazardous Incident Ordinance (Germany):

List entry in regulation: 1.2.5.1

Classification applies for standard conditions of temperature and pressure.

List entry in regulation: 1.2.5.2

Classification applies for standard conditions of temperature and pressure.

List entry in regulation: 1.2.5.3

Classification applies for standard conditions of temperature and pressure.

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

List entry in regulation: P5a

Classification applies for standard conditions of temperature and pressure.

List entry in regulation: P5b

Classification applies for standard conditions of temperature and pressure.

List entry in regulation: P5c

Classification applies for standard conditions of temperature and pressure.

Classification according to 'TA-Luft' (Germany):

5.2.5: Organic gases, general guidance

Water hazard class (§6 AwSV para.4 (Legal binding announcement of the substance in the Federal Gazette)): (1) Weakly water polluting. ID-No.: 42

Law on the Protection of Working Youth

German Regulation TA Luft (Technical Instruction on Air Quality Control, i.e. first Directive to the Federal Immission Control Ordinance)

15.2. Chemical Safety Assessment

Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

SECTION 16: Other Information

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

Flam. Liq. 3

STOT SE 3 (May cause drowsiness and dizziness.)

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Aquatic Acute 3

Full text of the classifications, including the hazard classes and the hazard statements, if mentioned in section 2 or 3:

Flam. Liq.	Flammable liquids
STOT SE	Specific target organ toxicity — single exposure
Acute Tox.	Acute toxicity
Skin Irrit.	Skin irritation
Eye Dam.	Serious eye damage
H226	Flammable liquid and vapour.
H336	May cause drowsiness or dizziness.
H318	Causes serious eye damage.
H315	Causes skin irritation.
H302	Harmful if swallowed.
H335	May cause respiratory irritation.
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. Formulation, Distribution of substance

IS; ERC2; PROC2, PROC3, PROC5, PROC8a, PROC8b, PROC9, PROC15

2. Use as an intermediate

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

3. Use as processing aid

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

4. Use in Cleaning Agents

IS; ERC4; PROC7, PROC10, PROC13

5. Use in Cleaning Agents

C; ERC8a, ERC8d; PC4, PC23, PC24, PC35

6. Use in Cleaning Agents

PW; ERC8a, ERC8d; PROC10, PROC11, PROC13, PROC19

7. Use in Coatings, Use in Paints, Use in Printing inks, Use in Adhesives

IS; ERC4; PROC7, PROC10, PROC13

8. Use in Coatings, Use in Paints, Use in Printing inks, Use in Adhesives

C; ERC8a, ERC8d; PC9a, PC9b, PC18

9. Use in Coatings, Use in Paints, Use in Printing inks, Use in Adhesives

PW; ERC8a, ERC8d; PROC10, PROC11, PROC13, PROC19

10. Use in Coatings, Use in Paints, Use in Printing inks, Use in Adhesives

IS; ERC4; PROC7, PROC10, PROC13

11. Consumer applications

C; ERC8a; PC39

1. Short title of exposure scenario

Formulation, Distribution of substance

IS; ERC2; PROC2, PROC3, PROC5, PROC8a, PROC8b, PROC9, PROC15

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	CEPE SPERC 2.1a.v1: CEPE SPERC 2.1a.v1

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Operational conditions	
Annual amount used in the EU	60.000.000 kg
Minimum emission days per year	225
Emission factor air	3,6 %
Emission factor water	0 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,222908
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	119.630,7 kg/d
Risk from environmental exposure is driven by soil.	

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	n-butyl acetate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker

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	Worker - dermal, long-term - systemic
Exposure estimate	1,3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,124675
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	24,1996 mg/m ³
Risk Characterization Ratio (RCR)	0,080665
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

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	n-butyl acetate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,6857 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,062338
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	48,3993 mg/m ³
Risk Characterization Ratio (RCR)	0,161331
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	n-butyl acetate Content: >= 0 % - <= 100 %

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Physical state	liquid
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1,3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,124675
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	24,1996 mg/m ³
Risk Characterization Ratio (RCR)	0,080665
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	n-butyl acetate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker

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	Worker - dermal, long-term - systemic
Exposure estimate	1,3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,124675
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	24,1996 mg/m ³
Risk Characterization Ratio (RCR)	0,080665
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	n-butyl acetate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1,3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,124675
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	120,9982 mg/m ³
Risk Characterization Ratio (RCR)	0,403327
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	

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Concentration of the substance	n-butyl acetate Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,6857 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,062338
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	24,1996 mg/m ³
Risk Characterization Ratio (RCR)	0,080665
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	n-butyl acetate Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,3429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,031169

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Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	48,3993 mg/m ³
Risk Characterization Ratio (RCR)	0,161331
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

2. Short title of exposure scenario

Use as an intermediate

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

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ESVOC SpERC 6.1a.v1: ESVOC SpERC 6.1a.v1
Operational conditions	
Annual amount used in the EU	1.000.000 kg
Minimum emission days per year	300
Emission factor air	0,2 %
Emission factor water	1 %
Emission factor soil	0,1 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Air treatment measures considered suitable are, e.g.	Wet scrubber - for dusts, Adsorption
Wastewater treatment measures considered suitable are, e.g.	Acclimated biological treatment
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,154199
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	2.161,7 kg/d

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Risk from environmental exposure is driven by soil.

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	n-butyl acetate Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor

Exposure estimate and reference to its source

Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,0343 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,003117
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	0,0484 mg/m ³
Risk Characterization Ratio (RCR)	0,000161

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	n-butyl acetate Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week

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Indoor/Outdoor	Indoor
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1,3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,124675
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	24,1996 mg/m ³
Risk Characterization Ratio (RCR)	0,080665
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

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	n-butyl acetate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,6857 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,062338
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	48,3993 mg/m ³
Risk Characterization Ratio (RCR)	0,161331
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

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Operational conditions	
Concentration of the substance	n-butyl acetate Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,6857 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,062338
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	96,7986 mg/m ³
Risk Characterization Ratio (RCR)	0,322662
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	n-butyl acetate Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %
Wear chemically resistant gloves in	Effectiveness: 90 %

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combination with 'basic' employee training.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1,3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,124675
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	24,1996 mg/m ³
Risk Characterization Ratio (RCR)	0,080665
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	n-butyl acetate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1,3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,124675
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	120,9982 mg/m ³
Risk Characterization Ratio (RCR)	0,403327
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

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	containers (dedicated filling line, including weighing). Use domain: industrial
Operational conditions	
Concentration of the substance	n-butyl acetate Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,6857 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,062338
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	24,1996 mg/m ³
Risk Characterization Ratio (RCR)	0,080665
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	n-butyl acetate Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Exposure estimate and reference to its source	

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Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,3429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,031169
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	48,3993 mg/m ³
Risk Characterization Ratio (RCR)	0,161331
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

3. Short title of exposure scenario

Use as processing aid

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

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ESVOC SpERC 1.1.v1: ESVOC SpERC 1.1.v1
Operational conditions	
Annual amount used in the EU	4.000.000 kg
Minimum emission days per year	300
Emission factor air	0,5 %
Emission factor water	1 %
Emission factor soil	0,01 %
Receive Surf. Water (Flow Rate).	18.000 m ³ /d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Air treatment measures considered suitable are, e.g.	Adsorption
Wastewater treatment measures considered suitable are, e.g.	Acclimated biological treatment
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m ³ /d)	2.000 m ³ /d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,617794

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	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	2.158,2 kg/d
Risk from environmental exposure is driven by soil.	

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	n-butyl acetate Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,0343 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,003117
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	0,0484 mg/m ³
Risk Characterization Ratio (RCR)	0,000161
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	n-butyl acetate Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	1120 Pa

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Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1,3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,124675
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	24,1996 mg/m ³
Risk Characterization Ratio (RCR)	0,080665
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

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	n-butyl acetate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,6857 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,062338
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	48,3993 mg/m ³
Risk Characterization Ratio (RCR)	0,161331
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario

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Use descriptors covered	PROC4: Chemical production where opportunity for exposure arises Use domain: industrial
Operational conditions	
Concentration of the substance	n-butyl acetate Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,6857 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,062338
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	96,7986 mg/m ³
Risk Characterization Ratio (RCR)	0,322662
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	n-butyl acetate Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor

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Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1,3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,124675
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	24,1996 mg/m ³
Risk Characterization Ratio (RCR)	0,080665
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	n-butyl acetate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1,3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,124675
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	120,9982 mg/m ³
Risk Characterization Ratio (RCR)	0,403327
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

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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	n-butyl acetate Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,6857 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,062338
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	24,1996 mg/m ³
Risk Characterization Ratio (RCR)	0,080665
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	n-butyl acetate Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week

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Indoor/Outdoor	Indoor
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	0,3429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,031169
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	48,3993 mg/m ³
Risk Characterization Ratio (RCR)	0,161331
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

4. Short title of exposure scenario

Use in Cleaning Agents

IS; ERC4; PROC7, PROC10, PROC13

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ESVOC SpERC 4.4a.v1: ESVOC SpERC 4.4a.v1
Operational conditions	
Annual amount used in the EU	5.000.000 kg
Minimum emission days per year	20
Emission factor air	30 %
Emission factor water	0,01 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m ³ /d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Air treatment measures considered suitable are, e.g.	Wet scrubber - for dusts, Waste gas treatment by thermal oxidation, Adsorption
Wastewater treatment measures considered suitable are, e.g.	Acclimated biological treatment, Distillation

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Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,05411
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	92.404,6 kg/d
Risk from environmental exposure is driven by soil.	

Contributing exposure scenario	
Use descriptors covered	PROC7: Industrial spraying Use domain: industrial
Operational conditions	
Concentration of the substance	n-butyl acetate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Ensure minimization of manual phases Clean equipment and the work area every day. Regular inspection and maintenance of equipment and machines. Ensure that the task is being carried out outside the breathing zone of a worker (distance head-product greater than 1m). Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid splashing.	
Ensure that a spraying booth is used.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic

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Exposure estimate	4,2857 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,38961
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	0,0001 mg/m ³
Risk Characterization Ratio (RCR)	0,000001
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC10: Roller application or brushing Use domain: industrial
Operational conditions	
Concentration of the substance	n-butyl acetate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	2,7429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,249351
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	72,5989 mg/m ³
Risk Characterization Ratio (RCR)	0,241996
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

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Operational conditions	
Concentration of the substance	n-butyl acetate Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1,3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,124675
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	72,5989 mg/m ³
Risk Characterization Ratio (RCR)	0,241996
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

5. Short title of exposure scenario

Use in Cleaning Agents

C; ERC8a, ERC8d; PC4, PC23, PC24, PC35

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ESVOC SpERC 8.4c.v1: ESVOC SpERC 8.4c.v1
Operational conditions	
Annual amount used in the EU	1.000.000 kg
Minimum emission days per year	365
Emission factor air	95 %

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Emission factor water	2,5 %
Emission factor soil	2,5 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,002679
	Risk from environmental exposure is driven by freshwater sediment.
Maximum amount of safe use	102,3 kg/d
Risk from environmental exposure is driven by freshwater sediment.	

Contributing exposure scenario	
Use descriptors covered	ESVOC SpERC 8.4c.v1: ESVOC SpERC 8.4c.v1
Operational conditions	
Annual amount used in the EU	1.000.000 kg
Minimum emission days per year	365
Emission factor air	95 %
Emission factor water	2,5 %
Emission factor soil	2,5 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment

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Risk Characterization Ratio (RCR)	0,002679
	Risk from environmental exposure is driven by freshwater sediment.
Maximum amount of safe use	102,3 kg/d
Risk from environmental exposure is driven by freshwater sediment.	

Contributing exposure scenario	
Use descriptors covered	PC4: Anti-Freeze and De-icing products.
Operational conditions	
Concentration of the substance	n-butyl acetate Content: $\geq 0\%$ - $\leq 100\%$
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 60 min Relevant for inhalative exposure estimates
Room size	15 m ³
Ventilation rate per hour	2,5
body weight	65 kg
Spray duration	24,6 sec
Contact rate	46 mg/min
Release duration	0,41 min
	Relevant for dermal exposure estimates
Risk Management Measures	
Consumer Measures	Ensure spraying away from persons.
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Dermal model: constant application rate
	Consumer - dermal, short-term - systemic
Exposure estimate	0,2902 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,048359
	The calculation is based on the external dose.
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Inhalation model: Exposure to spray/dust
	Consumer - inhalation, short-term - systemic
Exposure estimate	0,0053 mg/m ³
Risk Characterization Ratio (RCR)	0,000018
	The exposure calculation is based on a single use of the product.
Guidance to Downstream Users	
For scaling see: http://www.rivm.nl/en/healthandddisease/productsafety/ConsExpo.jsp	

Contributing exposure scenario

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Use descriptors covered	PC4: Anti-Freeze and De-icing products.
Operational conditions	
Concentration of the substance	n-butyl acetate Content: $\geq 0\%$ - $\leq 100\%$
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 240 min Relevant for inhalative exposure estimates
Room size	58 m ³
Ventilation rate per hour	0,5
body weight	65 kg
Spray duration	42 sec
Contact rate	46 mg/min
Release duration	0,7 min
	Relevant for dermal exposure estimates
Risk Management Measures	
Consumer Measures	Ensure spraying away from persons.
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Dermal model: constant application rate
	Consumer - dermal, short-term - systemic
Exposure estimate	0,4954 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,082564
	The calculation is based on the external dose.
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Inhalation model: Exposure to spray/dust
	Consumer - inhalation, short-term - systemic
Exposure estimate	0,0008 mg/m ³
Risk Characterization Ratio (RCR)	0,000003
	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	n-butyl acetate Content: $\geq 0\%$ - $\leq 100\%$
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C

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body weight	65 kg
	Amount per use 0,29 g Relevant for dermal exposure estimates
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Dermal model: instant application
	Consumer - dermal, short-term - systemic
Exposure estimate	4,4615 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,74359
	The calculation is based on the external dose.
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	n-butyl acetate Content: $\geq 0\%$ - $\leq 3,5\%$
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 0,75 min Relevant for inhalative exposure estimates
Duration and Frequency of activity	Application duration: 0,3 min Relevant for inhalative exposure estimates
Temperature (Application)	20 °C
body weight	65 kg
	Amount per use 0,01 g Relevant for dermal exposure estimates
Release area	20 cm ²
	Release area is constant
Release duration	0,3 min
	Relevant for inhalative exposure estimates
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Dermal model: instant application
	Consumer - dermal, short-term - systemic
Exposure estimate	0,0054 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,000897
	The calculation is based on the external dose.
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Inhalation model: exposure to vapour - evaporation
	Consumer - inhalation, short-term - systemic

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Exposure estimate	267,0996 mg/m ³
Risk Characterization Ratio (RCR)	0,890332
	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: Leather tanning, dye, finishing, impregnation and care products.
Operational conditions	
Concentration of the substance	n-butyl acetate Content: >= 0 % - <= 50 %
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
body weight	65 kg
	Amount per use 0,1 g Relevant for dermal exposure estimates
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Dermal model: instant application
	Consumer - dermal, short-term - systemic
Exposure estimate	0,7692 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,128205
	The calculation is based on the external dose.
Guidance to Downstream Users	
For scaling see: http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp	

Contributing exposure scenario	
Use descriptors covered	PC23: Leather tanning, dye, finishing, impregnation and care products.
Operational conditions	
Concentration of the substance	n-butyl acetate Content: >= 0 % - <= 50 %
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 5 min Relevant for inhalative exposure estimates
Room size	34 m ³
Ventilation rate per hour	1,5

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body weight	65 kg
Spray duration	72 sec
Contact rate	100 mg/min
Release duration	1,2 min
	Relevant for dermal exposure estimates
Risk Management Measures	
Consumer Measures	Ensure spraying away from persons.
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Dermal model: constant application rate
	Consumer - dermal, short-term - systemic
Exposure estimate	0,9231 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,153846
	The calculation is based on the external dose.
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Inhalation model: Exposure to spray/dust
	Consumer - inhalation, short-term - systemic
Exposure estimate	27,127 mg/m ³
Risk Characterization Ratio (RCR)	0,090423
	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: Leather tanning, dye, finishing, impregnation and care products.
Operational conditions	
Concentration of the substance	n-butyl acetate Content: >= 0 % - <= 50 %
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 240 min Relevant for inhalative exposure estimates
Room size	58 m ³
Ventilation rate per hour	0,5
body weight	65 kg
Spray duration	180 sec
Contact rate	100 mg/min
Release duration	3 min
	Relevant for dermal exposure estimates
Risk Management Measures	
Consumer Measures	Ensure spraying away from persons.

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Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Dermal model: constant application rate
	Consumer - dermal, short-term - systemic
Exposure estimate	2,3077 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,384615
	The calculation is based on the external dose.
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Inhalation model: Exposure to spray/dust
	Consumer - inhalation, short-term - systemic
Exposure estimate	2,5108 mg/m ³
Risk Characterization Ratio (RCR)	0,008369
	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	PC24: Lubricants, Greases and Release Products Exposure is considered negligible.
Operational conditions	
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C

Contributing exposure scenario	
Use descriptors covered	PC24: Lubricants, Greases and Release Products Exposure is considered negligible.
Operational conditions	
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C

Contributing exposure scenario	
Use descriptors covered	PC24: Lubricants, Greases and Release Products Exposure is considered negligible.
Operational conditions	
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C

Contributing exposure scenario	
Use descriptors covered	PC35: Washing and Cleaning Products (including solvent

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	based products).
Operational conditions	
Concentration of the substance	n-butyl acetate Content: $\geq 0\%$ - $\leq 13\%$
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 25 min Relevant for inhalative exposure estimates
Room size	10 m ³
Ventilation rate per hour	2
body weight	65 kg
Spray duration	90 sec
Contact rate	46 mg/min
Release duration	1,5 min
	Relevant for dermal exposure estimates
Risk Management Measures	
Consumer Measures	Ensure spraying away from persons.
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Dermal model: constant application rate
	Consumer - dermal, short-term - systemic
Exposure estimate	0,138 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,023
	The calculation is based on the external dose.
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Inhalation model: Exposure to spray/dust
	Consumer - inhalation, short-term - systemic
Exposure estimate	0,0047 mg/m ³
Risk Characterization Ratio (RCR)	0,000016
	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	PC35: Washing and Cleaning Products (including solvent based products).
Operational conditions	
Concentration of the substance	n-butyl acetate Content: $\geq 0\%$ - $\leq 50\%$
Vapour pressure of the substance during use	1120 Pa

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Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 60 min Relevant for inhalative exposure estimates
Room size	15 m ³
Ventilation rate per hour	2,5
body weight	65 kg
Spray duration	24,6 sec
Contact rate	46 mg/min
Release duration	0,41 min
	Relevant for dermal exposure estimates
Risk Management Measures	
Consumer Measures	Ensure spraying away from persons.
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Dermal model: constant application rate
	Consumer - dermal, short-term - systemic
Exposure estimate	0,1451 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,024179
	The calculation is based on the external dose.
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Inhalation model: Exposure to spray/dust
	Consumer - inhalation, short-term - systemic
Exposure estimate	0,0027 mg/m ³
Risk Characterization Ratio (RCR)	0,000009
	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	PC35: Washing and Cleaning Products (including solvent based products).
Operational conditions	
Concentration of the substance	n-butyl acetate Content: >= 0 % - <= 100 %
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 240 min Relevant for inhalative exposure estimates
Room size	58 m ³
Ventilation rate per hour	0,5
body weight	65 kg

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Spray duration	42 sec
Contact rate	46 mg/min
Release duration	0,7 min
	Relevant for dermal exposure estimates
Risk Management Measures	
Consumer Measures	Ensure spraying away from persons.
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Dermal model: constant application rate
	Consumer - dermal, short-term - systemic
Exposure estimate	0,4954 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,082564
	The calculation is based on the external dose.
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Inhalation model: Exposure to spray/dust
	Consumer - inhalation, short-term - systemic
Exposure estimate	0,0008 mg/m ³
Risk Characterization Ratio (RCR)	0,000003
	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	PC35: Washing and Cleaning Products (including solvent based products).
Operational conditions	
Concentration of the substance	n-butyl acetate Content: >= 0 % - <= 100 %
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
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	42 sec
Contact rate	46 mg/min
Release duration	0,7 min
	Relevant for dermal exposure estimates
Risk Management Measures	
Consumer Measures	Ensure spraying away from persons.
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Dermal model: constant

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	application rate
	Consumer - dermal, short-term - systemic
Exposure estimate	0,4954 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,082564
	The calculation is based on the external dose.
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Inhalation model: Exposure to spray/dust
	Consumer - inhalation, short-term - systemic
Exposure estimate	0,0008 mg/m ³
Risk Characterization Ratio (RCR)	0,000003
	The exposure calculation is based on a single use of the product.
Guidance to Downstream Users	
For scaling see: http://www.rivm.nl/en/healthandddisease/productsafety/ConsExpo.jsp	

Contributing exposure scenario	
Use descriptors covered	PC35: Washing and Cleaning Products (including solvent based products).
Operational conditions	
Concentration of the substance	n-butyl acetate Content: >= 0 % - <= 1,3999 %
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 0,75 min Relevant for inhalative exposure estimates
Duration and Frequency of activity	Application duration: 0,3 min Relevant for inhalative exposure estimates
Temperature (Application)	20 °C
body weight	65 kg
	Amount per use 0,01 g Relevant for dermal exposure estimates
Release area	20 cm ²
	Release area is constant
Release duration	0,3 min
	Relevant for inhalative exposure estimates
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Dermal model: instant application
	Consumer - dermal, short-term - systemic
Exposure estimate	0,0022 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,000359
	The calculation is based on the external dose.
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Inhalation model: exposure to vapour - evaporation

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	Consumer - inhalation, short-term - systemic
Exposure estimate	105,0002 mg/m ³
Risk Characterization Ratio (RCR)	0,350001
	The exposure calculation is based on a single use of the product.
Guidance to Downstream Users	
For scaling see: http://www.rivm.nl/en/healthandddisease/productsafety/ConsExpo.jsp	

Contributing exposure scenario	
Use descriptors covered	PC35: Washing and Cleaning Products (including solvent based products).
Operational conditions	
Concentration of the substance	n-butyl acetate Content: >= 0 % - <= 1,5 %
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 0,75 min Relevant for inhalative exposure estimates
Duration and Frequency of activity	Application duration: 0,3 min Relevant for inhalative exposure estimates
Temperature (Application)	20 °C
body weight	65 kg
	Amount per use 0,01 g Relevant for dermal exposure estimates
Release area	20 cm ²
	Release area is constant
Release duration	0,3 min
	Relevant for inhalative exposure estimates
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Dermal model: instant application
	Consumer - dermal, short-term - systemic
Exposure estimate	0,0023 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,000385
	The calculation is based on the external dose.
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Inhalation model: exposure to vapour - evaporation
	Consumer - inhalation, short-term - systemic
Exposure estimate	112,5926 mg/m ³
Risk Characterization Ratio (RCR)	0,375309
	The exposure calculation is based on a single use of the product.
Guidance to Downstream Users	
For scaling see: http://www.rivm.nl/en/healthandddisease/productsafety/ConsExpo.jsp	

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Contributing exposure scenario	
Use descriptors covered	PC35: Washing and Cleaning Products (including solvent based products).
Operational conditions	
Concentration of the substance	n-butyl acetate Content: $\geq 0\%$ - $\leq 1,3\%$
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 0,75 min Relevant for inhalative exposure estimates
Duration and Frequency of activity	Application duration: 0,3 min Relevant for inhalative exposure estimates
Temperature (Application)	20 °C
body weight	65 kg
	Amount per use 0,01 g Relevant for dermal exposure estimates
Release area	20 cm ²
	Release area is constant
Release duration	0,3 min
	Relevant for inhalative exposure estimates
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Dermal model: instant application
	Consumer - dermal, short-term - systemic
Exposure estimate	0,002 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,000333
	The calculation is based on the external dose.
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Inhalation model: exposure to vapour - evaporation
	Consumer - inhalation, short-term - systemic
Exposure estimate	114,3826 mg/m ³
Risk Characterization Ratio (RCR)	0,381275
	The exposure calculation is based on a single use of the product.
Guidance to Downstream Users	
For scaling see: http://www.rivm.nl/en/healthandddisease/productsafety/ConsExpo.jsp	

Contributing exposure scenario	
Use descriptors covered	PC35: Washing and Cleaning Products (including solvent based products).
Operational conditions	
Concentration of the substance	n-butyl acetate

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	Content: $\geq 0 \%$ - $\leq 1 \%$
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 0,75 min Relevant for inhalative exposure estimates
Duration and Frequency of activity	Application duration: 0,3 min Relevant for inhalative exposure estimates
Temperature (Application)	20 °C
body weight	65 kg
	Amount per use 0,01 g Relevant for dermal exposure estimates
Release area	20 cm ²
	Release area is constant
Release duration	0,3 min
	Relevant for inhalative exposure estimates
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Dermal model: instant application
	Consumer - dermal, short-term - systemic
Exposure estimate	0,0015 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,000256
	The calculation is based on the external dose.
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Inhalation model: exposure to vapour - evaporation
	Consumer - inhalation, short-term - systemic
Exposure estimate	122,1779 mg/m ³
Risk Characterization Ratio (RCR)	0,40726
	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	PC35: Washing and Cleaning Products (including solvent based products).
Operational conditions	
Concentration of the substance	n-butyl acetate Content: $\geq 0 \%$ - $\leq 0,9 \%$
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
body weight	65 kg

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	Amount per use 19 g Relevant for dermal exposure estimates
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Dermal model: instant application
	Consumer - dermal, short-term - systemic
Exposure estimate	2,6308 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,438462
	The calculation is based on the external dose.
Guidance to Downstream Users	
For scaling see: http://www.rivm.nl/en/healthandddisease/productsafety/ConsExpo.jsp	

Contributing exposure scenario	
Use descriptors covered	PC35: Washing and Cleaning Products (including solvent based products).
Operational conditions	
Concentration of the substance	n-butyl acetate Content: >= 0 % - <= 100 %
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
body weight	65 kg
	Amount per use 0,29 g Relevant for dermal exposure estimates
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Dermal model: instant application
	Consumer - dermal, short-term - systemic
Exposure estimate	4,4615 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,74359
	The calculation is based on the external dose.
Guidance to Downstream Users	
For scaling see: http://www.rivm.nl/en/healthandddisease/productsafety/ConsExpo.jsp	

Contributing exposure scenario	
Use descriptors covered	PC35: Washing and Cleaning Products (including solvent based products).
Operational conditions	
Concentration of the substance	n-butyl acetate Content: >= 0 % - <= 100 %
Vapour pressure of the substance during use	1120 Pa

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Process temperature	20 °C
body weight	65 kg
	Amount per use 0,29 g Relevant for dermal exposure estimates
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Dermal model: instant application
	Consumer - dermal, short-term - systemic
Exposure estimate	4,4615 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,74359
	The calculation is based on the external dose.
Guidance to Downstream Users	
For scaling see: http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp	

Contributing exposure scenario	
Use descriptors covered	PC35: Washing and Cleaning Products (including solvent based products).
Operational conditions	
Concentration of the substance	n-butyl acetate Content: >= 0 % - <= 50 %
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 60 min Relevant for inhalative exposure estimates
Duration and Frequency of activity	Application duration: 10 min Relevant for inhalative exposure estimates
Temperature (Application)	20 °C
body weight	65 kg
	Amount per use 0,16 g Relevant for dermal exposure estimates
Release area	17100 cm ²
	Release area is constant
Release duration	10 min
	Relevant for inhalative exposure estimates
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Dermal model: instant application
	Consumer - dermal, short-term - systemic
Exposure estimate	1,2308 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,205128
	The calculation is based on the external dose.
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Inhalation model:

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	exposure to vapour - evaporation
	Consumer - inhalation, short-term - systemic
Exposure estimate	198,2604 mg/m ³
Risk Characterization Ratio (RCR)	0,660868
	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	PC35: Washing and Cleaning Products (including solvent based products).
Operational conditions	
Concentration of the substance	n-butyl acetate Content: >= 0 % - <= 1,5 %
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
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
Temperature (Application)	20 °C
body weight	65 kg
	Amount per use 19 g Relevant for dermal exposure estimates
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 v4.1, ConsExpo v4.1, Dermal model: instant application
	Consumer - dermal, short-term - systemic
Exposure estimate	4,3846 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,730769
	The calculation is based on the external dose.
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Inhalation model: exposure to vapour - evaporation
	Consumer - inhalation, short-term - systemic
Exposure estimate	44,069 mg/m ³
Risk Characterization Ratio (RCR)	0,146897
	The exposure calculation is based on a single use of the product.
Guidance to Downstream Users	

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Contributing exposure scenario	
Use descriptors covered	PC35: Washing and Cleaning Products (including solvent based products).
Operational conditions	
Concentration of the substance	n-butyl acetate Content: $\geq 0\%$ - $\leq 2,2999\%$
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
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
Temperature (Application)	20 °C
body weight	65 kg
	Amount per use 8,6 g Relevant for dermal exposure estimates
Release area	1500 cm ²
	Release area is constant
Release duration	16 min
	Relevant for inhalative exposure estimates
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Dermal model: instant application
	Consumer - dermal, short-term - systemic
Exposure estimate	3,0431 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,507179
	The calculation is based on the external dose.
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Inhalation model: exposure to vapour - evaporation
	Consumer - inhalation, short-term - systemic
Exposure estimate	116,6517 mg/m ³
Risk Characterization Ratio (RCR)	0,388839
	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	PC35: Washing and Cleaning Products (including solvent based products).
Operational conditions	

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Concentration of the substance	n-butyl acetate Content: $\geq 0\%$ - $\leq 0,9\%$
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 0,75 min Relevant for inhalative exposure estimates
Duration and Frequency of activity	Application duration: 0,3 min Relevant for inhalative exposure estimates
Temperature (Application)	20 °C
body weight	65 kg
	Amount per use 0,01 g Relevant for dermal exposure estimates
Release area	20 cm ²
	Release area is constant
Release duration	0,3 min
	Relevant for inhalative exposure estimates
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Dermal model: instant application
	Consumer - dermal, short-term - systemic
Exposure estimate	0,0014 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,000231
	The calculation is based on the external dose.
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Inhalation model: exposure to vapour - evaporation
	Consumer - inhalation, short-term - systemic
Exposure estimate	271,8973 mg/m ³
Risk Characterization Ratio (RCR)	0,906324
	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	PC35: Washing and Cleaning Products (including solvent based products).
Operational conditions	
Concentration of the substance	n-butyl acetate Content: $\geq 0\%$ - $\leq 2,2999\%$
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C

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Duration and Frequency of activity	Exposure duration: 0,75 min Relevant for inhalative exposure estimates
Duration and Frequency of activity	Application duration: 0,3 min Relevant for inhalative exposure estimates
Temperature (Application)	20 °C
body weight	65 kg
	Amount per use 0,01 g Relevant for dermal exposure estimates
Release area	20 cm ²
	Release area is constant
Release duration	0,3 min
	Relevant for inhalative exposure estimates
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Dermal model: instant application
	Consumer - dermal, short-term - systemic
Exposure estimate	0,0035 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,00059
	The calculation is based on the external dose.
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Inhalation model: exposure to vapour - evaporation
	Consumer - inhalation, short-term - systemic
Exposure estimate	281,2792 mg/m ³
Risk Characterization Ratio (RCR)	0,937597
	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	PC35: Washing and Cleaning Products (including solvent based products).
Operational conditions	
Concentration of the substance	n-butyl acetate Content: >= 0 % - <= 1,3 %
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 25 min Relevant for inhalative exposure estimates
Duration and Frequency of activity	Application duration: 20 min Relevant for inhalative exposure estimates
Temperature (Application)	20 °C
body weight	65 kg

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	Amount per use 19 g Relevant for dermal exposure estimates
Release area	64000 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 v4.1, ConsExpo v4.1, Dermal model: instant application
	Consumer - dermal, short-term - systemic
Exposure estimate	3,8 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,633333
	The calculation is based on the external dose.
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Inhalation model: exposure to vapour - evaporation
	Consumer - inhalation, short-term - systemic
Exposure estimate	93,7866 mg/m ³
Risk Characterization Ratio (RCR)	0,312622
	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	PC35: Washing and Cleaning Products (including solvent based products).
Operational conditions	
Concentration of the substance	n-butyl acetate Content: >= 0 % - <= 90 %
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 60 min Relevant for inhalative exposure estimates
Duration and Frequency of activity	Application duration: 10 min Relevant for inhalative exposure estimates
Temperature (Application)	20 °C
body weight	65 kg
	Amount per use 0,1 g Relevant for dermal exposure estimates
Release area	17100 cm ²
	Release area increases over time
Release duration	10 min
	Relevant for inhalative exposure estimates
Exposure estimate and reference to its source	

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Assessment method	EASY TRA v4.1, ConsExpo v4.1, Dermal model: instant application
	Consumer - dermal, short-term - systemic
Exposure estimate	1,3846 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,230769
	The calculation is based on the external dose.
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Inhalation model: exposure to vapour - evaporation
	Consumer - inhalation, short-term - systemic
Exposure estimate	215,1873 mg/m ³
Risk Characterization Ratio (RCR)	0,717291
	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	PC35: Washing and Cleaning Products (including solvent based products).
Operational conditions	
Concentration of the substance	n-butyl acetate Content: >= 0 % - <= 1 %
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 110 min Relevant for inhalative exposure estimates
Duration and Frequency of activity	Application duration: 110 min Relevant for inhalative exposure estimates
Temperature (Application)	20 °C
body weight	65 kg
	Amount per use 27 g Relevant for dermal exposure estimates
Release area	220000 cm ²
	Release area increases over time
Release duration	110 min
	Relevant for inhalative exposure estimates
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Dermal model: instant application
	Consumer - dermal, short-term - systemic
Exposure estimate	4,1538 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,692308
	The calculation is based on the external dose.
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Inhalation model:

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	exposure to vapour - evaporation
	Consumer - inhalation, short-term - systemic
Exposure estimate	81,3662 mg/m ³
Risk Characterization Ratio (RCR)	0,271221
	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	PC35: Washing and Cleaning Products (including solvent based products).
Operational conditions	
Concentration of the substance	n-butyl acetate Content: >= 0 % - <= 1,3999 %
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 240 min Relevant for inhalative exposure estimates
Duration and Frequency of activity	Application duration: 30 min Relevant for inhalative exposure estimates
Temperature (Application)	20 °C
body weight	65 kg
	Amount per use 19 g Relevant for dermal exposure estimates
Release area	220000 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 v4.1, ConsExpo v4.1, Dermal model: instant application
	Consumer - dermal, short-term - systemic
Exposure estimate	4,0923 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,682051
	The calculation is based on the external dose.
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Inhalation model: exposure to vapour - evaporation
	Consumer - inhalation, short-term - systemic
Exposure estimate	86,9603 mg/m ³
Risk Characterization Ratio (RCR)	0,289868
	The exposure calculation is based on a single use of the product.
Guidance to Downstream Users	

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Contributing exposure scenario	
Use descriptors covered	PC35: Washing and Cleaning Products (including solvent based products).
Operational conditions	
Concentration of the substance	n-butyl acetate Content: >= 0 % - <= 13 %
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 25 min Relevant for inhalative exposure estimates
Duration and Frequency of activity	Application duration: 20 min Relevant for inhalative exposure estimates
Temperature (Application)	20 °C
body weight	65 kg
	Amount per use 0,3 g Relevant for dermal exposure estimates
Release area	64000 cm ²
	Release area is constant
Release duration	20 min
	Relevant for inhalative exposure estimates
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Dermal model: instant application
	Consumer - dermal, short-term - systemic
Exposure estimate	0,6 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,1
	The calculation is based on the external dose.
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Inhalation model: exposure to vapour - evaporation
	Consumer - inhalation, short-term - systemic
Exposure estimate	264,429 mg/m ³
Risk Characterization Ratio (RCR)	0,88143
	The exposure calculation is based on a single use of the product.
Guidance to Downstream Users	
For scaling see: http://www.rivm.nl/en/healthandddisease/productsafety/ConsExpo.jsp	

6. Short title of exposure scenario

Use in Cleaning Agents

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PW; ERC8a, ERC8d; PROC10, PROC11, PROC13, PROC19

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ESVOC SpERC 8.4b.v1: ESVOC SpERC 8.4b.v1
Operational conditions	
Annual amount used in the EU	2.000.000 kg
Minimum emission days per year	365
Emission factor air	2 %
Emission factor water	0 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,00239
	Risk from environmental exposure is driven by freshwater sediment.
Maximum amount of safe use	229,2 kg/d
Risk from environmental exposure is driven by freshwater sediment.	

Contributing exposure scenario	
Use descriptors covered	ESVOC SpERC 8.4b.v1: ESVOC SpERC 8.4b.v1
Operational conditions	
Annual amount used in the EU	2.000.000 kg
Minimum emission days per year	365
Emission factor air	2 %
Emission factor water	0 %

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Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,00239
	Risk from environmental exposure is driven by freshwater sediment.
Maximum amount of safe use	229,2 kg/d
Risk from environmental exposure is driven by freshwater sediment.	

Contributing exposure scenario	
Use descriptors covered	PROC10: Roller application or brushing Use domain: professional
Operational conditions	
Concentration of the substance	n-butyl acetate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	2,7429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,249351

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Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	145,1979 mg/m ³
Risk Characterization Ratio (RCR)	0,483993
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC11: Non industrial spraying Use domain: professional
Operational conditions	
Concentration of the substance	n-butyl acetate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Ensure minimization of manual phases Clean equipment and the work area every day. Regular inspection and maintenance of equipment and machines. Ensure that the task is being carried out outside the breathing zone of a worker (distance head-product greater than 1m). Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid splashing.	
Ensure that a spraying booth is used.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	10,7143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,974026
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local

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Exposure estimate	0,0001 mg/m ³
Risk Characterization Ratio (RCR)	0,000001
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC11: Non industrial spraying Use domain: professional
Operational conditions	
Concentration of the substance	n-butyl acetate Content: >= 0 % - <= 45 %
Physical state	liquid
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Clean equipment and the work area every day. Regular inspection and maintenance of equipment and machines. Ensure doors and windows are opened (general ventilation). Avoid splashing.	
Use a local exhaust ventilation with adequate effectiveness., Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, worker, modified version, The concentration of the substance has been considered using a linear approach.
	Worker - dermal, long-term - systemic
Exposure estimate	4,8214 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,438312
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, worker, modified version

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	Worker - inhalation, long-term - local
Exposure estimate	153 mg/m ³
Risk Characterization Ratio (RCR)	0,51
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC11: Non industrial spraying Use domain: professional
Operational conditions	
Concentration of the substance	n-butyl acetate Content: >= 0 % - <= 45 %
Physical state	liquid
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Clean equipment and the work area every day. Regular inspection and maintenance of equipment and machines. Avoid splashing. Ensure doors and windows are opened (general ventilation).	
Wear a half mask respirator with type P2L filter or better.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, worker, modified version, The concentration of the substance has been considered using a linear approach.
	Worker - dermal, long-term - systemic
Exposure estimate	4,8214 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,438312
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, worker, modified

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	version
	Worker - inhalation, long-term - local
Exposure estimate	116 mg/m ³
Risk Characterization Ratio (RCR)	0,386667
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC13: Treatment of articles by dipping and pouring. Use domain: professional
Operational conditions	
Concentration of the substance	n-butyl acetate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1,3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,124675
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	145,1979 mg/m ³
Risk Characterization Ratio (RCR)	0,483993
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	
Concentration of the substance	n-butyl acetate

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	Content: $\geq 0 \%$ - $\leq 100 \%$
Physical state	liquid
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 80 %
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	8,4857 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,771429
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	67,759 mg/m ³
Risk Characterization Ratio (RCR)	0,225863
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	
Concentration of the substance	n-butyl acetate Content: $\geq 0 \%$ - $\leq 100 \%$
Physical state	liquid
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	60 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide a good standard of general or controlled ventilation (5 to 10 air	Effectiveness: 70 %

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changes per hour)	
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	2,8286 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,257143
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	145,1979 mg/m ³
Risk Characterization Ratio (RCR)	0,483993
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

7. Short title of exposure scenario

Use in Coatings, Use in Paints, Use in Printing inks, Use in Adhesives
IS; ERC4; PROC7, PROC10, PROC13

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	CEPE SPERC 4.1a.v1: CEPE SPERC 4.1a.v1
Operational conditions	
Annual amount used in the EU	5.000.000 kg
Minimum emission days per year	225
Emission factor air	0,8 %
Emission factor water	2 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Air treatment measures considered suitable are, e.g.	Waste gas treatment by thermal oxidation
Type of STP	Municipal STP

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Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,925355
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	1.080,7 kg/d
Risk from environmental exposure is driven by soil.	

Contributing exposure scenario	
Use descriptors covered	PROC7: Industrial spraying Use domain: industrial
Operational conditions	
Concentration of the substance	n-butyl acetate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Ensure minimization of manual phases Clean equipment and the work area every day. Regular inspection and maintenance of equipment and machines. Ensure that the task is being carried out outside the breathing zone of a worker (distance head-product greater than 1m). Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid splashing.	
Ensure that a spraying booth is used.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	4,2857 mg/kg bw/day

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Risk Characterization Ratio (RCR)	0,38961
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	0,0001 mg/m ³
Risk Characterization Ratio (RCR)	0,000001
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC10: Roller application or brushing Use domain: industrial
Operational conditions	
Concentration of the substance	n-butyl acetate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	2,7429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,249351
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	24,1996 mg/m ³
Risk Characterization Ratio (RCR)	0,080665
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	n-butyl acetate Content: >= 0 % - <= 100 %

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Physical state	liquid
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1,3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,124675
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	24,1996 mg/m ³
Risk Characterization Ratio (RCR)	0,080665
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

8. Short title of exposure scenario

Use in Coatings, Use in Paints, Use in Printing inks, Use in Adhesives
C; ERC8a, ERC8d; PC9a, PC9b, PC18

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	CEPE SPERC 8a.1a.v1: CEPE SPERC 8a.1a.v1
Operational conditions	
Annual amount used in the EU	1.000.000 kg
Minimum emission days per year	365
Emission factor air	99 %
Emission factor water	1 %
Emission factor soil	0 %

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Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,004497
	Risk from environmental exposure is driven by freshwater sediment.
Maximum amount of safe use	1.111,9 kg/d
Risk from environmental exposure is driven by freshwater sediment.	

Contributing exposure scenario	
Use descriptors covered	CEPE SPERC 8d.1a.v1
Operational conditions	
Annual amount used in the EU	1.000.000 kg
Minimum emission days per year	365
Emission factor air	98,5 %
Emission factor water	1 %
Emission factor soil	0,5 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,004497
	Risk from environmental exposure is driven by freshwater sediment.
Maximum amount of safe use	1.111,9 kg/d

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Risk from environmental exposure is driven by freshwater sediment.

Contributing exposure scenario

Use descriptors covered

PC9a: Coatings and paints, thinners, paint removers

Operational conditions

Concentration of the substance

n-butyl acetate
Content: $\geq 0\%$ - $\leq 2\%$

Vapour pressure of the substance during use

1120 Pa

Process temperature

20 °C

body weight

65 kg

Amount per use 0,01 g Relevant for dermal exposure estimates

Exposure estimate and reference to its source

Assessment method

EASY TRA v4.1, ConsExpo v4.1, Dermal model: instant application

Consumer - dermal, short-term - systemic

Exposure estimate

0,0031 mg/kg bw/day

Risk Characterization Ratio (RCR)

0,000513

The calculation is based on the external dose.

Guidance to Downstream Users

For scaling see: <http://www.rivm.nl/en/healthanddisease/productsafety/ConsExpo.jsp>

Contributing exposure scenario

Use descriptors covered

PC9a: Coatings and paints, thinners, paint removers

Operational conditions

Concentration of the substance

n-butyl acetate
Content: $\geq 0\%$ - $\leq 1,3\%$

Vapour pressure of the substance during use

1120 Pa

Process temperature

20 °C

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

Temperature (Application)

20 °C

body weight

65 kg

Amount per use 0,5 g Relevant for dermal exposure estimates

Release area

20000 cm²

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	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 v4.1, ConsExpo v4.1, Dermal model: instant application
	Consumer - dermal, short-term - systemic
Exposure estimate	0,1 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,016667
	The calculation is based on the external dose.
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Inhalation model: exposure to vapour - evaporation
	Consumer - inhalation, short-term - systemic
Exposure estimate	268,3666 mg/m ³
Risk Characterization Ratio (RCR)	0,894555
	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	PC9a: Coatings and paints, thinners, paint removers
Operational conditions	
Concentration of the substance	n-butyl acetate Content: >= 0 % - <= 1,3 %
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 132 min Relevant for inhalative exposure estimates
Duration and Frequency of activity	Application duration: 120 min Relevant for inhalative exposure estimates
Temperature (Application)	20 °C
body weight	65 kg
Release area	100000 cm ²
	Release area increases over time
Release duration	120 min
	Relevant for inhalative exposure estimates
Contact rate	30 mg/min
Release duration	120 min
	Relevant for dermal exposure estimates
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Dermal model: constant application rate
	Consumer - dermal, short-term - systemic

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Exposure estimate	0,72 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,12
	The calculation is based on the external dose.
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Inhalation model: exposure to vapour - evaporation
	Consumer - inhalation, short-term - systemic
Exposure estimate	237,9923 mg/m ³
Risk Characterization Ratio (RCR)	0,793308
	The exposure calculation is based on a single use of the product.
Guidance to Downstream Users	
For scaling see: http://www.rivm.nl/en/healthandddisease/productsafety/ConsExpo.jsp	

Contributing exposure scenario	
Use descriptors covered	PC9a: Coatings and paints, thinners, paint removers
Operational conditions	
Concentration of the substance	n-butyl acetate Content: >= 0 % - <= 18 %
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 20 min Relevant for inhalative exposure estimates
Room size	34 m ³
Ventilation rate per hour	1,5
body weight	65 kg
Spray duration	900 sec
Contact rate	100 mg/min
Release duration	15 min
	Relevant for dermal exposure estimates
Risk Management Measures	
Consumer Measures	Ensure spraying away from persons.
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Dermal model: constant application rate
	Consumer - dermal, short-term - systemic
Exposure estimate	4,1538 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,692308
	The calculation is based on the external dose.
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Inhalation model: Exposure to spray/dust
	Consumer - inhalation, short-term - systemic
Exposure estimate	67,715 mg/m ³
Risk Characterization Ratio (RCR)	0,225717
	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/healthandddisease/productsafety/ConsExpo.jsp	

Contributing exposure scenario	
Use descriptors covered	PC9a: Coatings and paints, thinners, paint removers
Operational conditions	
Concentration of the substance	n-butyl acetate Content: $\geq 0\%$ - $\leq 1,3999\%$
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 132 min Relevant for inhalative exposure estimates
Duration and Frequency of activity	Application duration: 120 min Relevant for inhalative exposure estimates
Temperature (Application)	20 °C
body weight	65 kg
Release area	100000 cm ²
	Release area increases over time
Release duration	120 min
	Relevant for inhalative exposure estimates
Contact rate	30 mg/min
Release duration	120 min
	Relevant for dermal exposure estimates
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Dermal model: constant application rate
	Consumer - dermal, short-term - systemic
Exposure estimate	0,7754 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,129231
	The calculation is based on the external dose.
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Inhalation model: exposure to vapour - evaporation
	Consumer - inhalation, short-term - systemic
Exposure estimate	240,316 mg/m ³
Risk Characterization Ratio (RCR)	0,801053
	The exposure calculation is based on a single use of the product.
Guidance to Downstream Users	
For scaling see: http://www.rivm.nl/en/healthandddisease/productsafety/ConsExpo.jsp	

Contributing exposure scenario	
Use descriptors covered	PC9a: Coatings and paints, thinners, paint removers

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Operational conditions	
Concentration of the substance	n-butyl acetate Content: $\geq 0\%$ - $\leq 17\%$
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 180 min Relevant for inhalative exposure estimates
Duration and Frequency of activity	Application duration: 120 min Relevant for inhalative exposure estimates
Temperature (Application)	20 °C
body weight	70 kg
	Amount per use 0,1 g Relevant for dermal exposure estimates
Release area	250 cm ²
	Release area increases over time
Release duration	120 min
	Relevant for inhalative exposure estimates
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Dermal model: instant application
	Consumer - dermal, short-term - systemic
Exposure estimate	0,2429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,040476
	The calculation is based on the external dose.
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Inhalation model: exposure to vapour - evaporation
	Consumer - inhalation, short-term - systemic
Exposure estimate	273,8832 mg/m ³
Risk Characterization Ratio (RCR)	0,912944
	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	PC9a: Coatings and paints, thinners, paint removers
Operational conditions	
Concentration of the substance	n-butyl acetate Content: $\geq 0\%$ - $\leq 1,1\%$
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C

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Duration and Frequency of activity	Exposure duration: 132 min Relevant for inhalative exposure estimates
Duration and Frequency of activity	Application duration: 120 min Relevant for inhalative exposure estimates
Temperature (Application)	20 °C
body weight	65 kg
Release area	100000 cm ²
	Release area increases over time
Release duration	120 min
	Relevant for inhalative exposure estimates
Contact rate	30 mg/min
Release duration	120 min
	Relevant for dermal exposure estimates
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Dermal model: constant application rate
	Consumer - dermal, short-term - systemic
Exposure estimate	0,6092 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,101538
	The calculation is based on the external dose.
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Inhalation model: exposure to vapour - evaporation
	Consumer - inhalation, short-term - systemic
Exposure estimate	261,7915 mg/m ³
Risk Characterization Ratio (RCR)	0,872638
	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	PC9a: Coatings and paints, thinners, paint removers
Operational conditions	
Concentration of the substance	n-butyl acetate Content: >= 0 % - <= 2 %
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
body weight	65 kg
	Amount per use 19 g Relevant for dermal exposure estimates
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Dermal model: instant application

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	Consumer - dermal, short-term - systemic
Exposure estimate	5,8462 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,974359
	The calculation is based on the external dose.
Guidance to Downstream Users	
For scaling see: http://www.rivm.nl/en/healthandddisease/productsafety/ConsExpo.jsp	

Contributing exposure scenario	
Use descriptors covered	PC9a: Coatings and paints, thinners, paint removers
Operational conditions	
Concentration of the substance	n-butyl acetate Content: >= 0 % - <= 2 %
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 240 min Relevant for inhalative exposure estimates
Duration and Frequency of activity	Application duration: 240 min Relevant for inhalative exposure estimates
Temperature (Application)	20 °C
body weight	65 kg
Release area	50000 cm ²
	Release area increases over time
Release duration	240 min
	Relevant for inhalative exposure estimates
Contact rate	30 mg/min
Release duration	240 min
	Relevant for dermal exposure estimates
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Dermal model: constant application rate
	Consumer - dermal, short-term - systemic
Exposure estimate	2,2154 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,369231
	The calculation is based on the external dose.
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Inhalation model: exposure to vapour - evaporation
	Consumer - inhalation, short-term - systemic
Exposure estimate	185,2461 mg/m ³
Risk Characterization Ratio (RCR)	0,617487
	The exposure calculation is based on a single use of the product.
Guidance to Downstream Users	
For scaling see: http://www.rivm.nl/en/healthandddisease/productsafety/ConsExpo.jsp	

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Contributing exposure scenario	
Use descriptors covered	PC9a: Coatings and paints, thinners, paint removers
Operational conditions	
Concentration of the substance	n-butyl acetate Content: $\geq 0\%$ - $\leq 0,5999\%$
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 132 min Relevant for inhalative exposure estimates
Duration and Frequency of activity	Application duration: 120 min Relevant for inhalative exposure estimates
Temperature (Application)	20 °C
body weight	65 kg
Release area	150000 cm ²
	Release area increases over time
Release duration	120 min
	Relevant for inhalative exposure estimates
Contact rate	30 mg/min
Release duration	120 min
	Relevant for dermal exposure estimates
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Dermal model: constant application rate
	Consumer - dermal, short-term - systemic
Exposure estimate	0,3323 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,055385
	The calculation is based on the external dose.
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Inhalation model: exposure to vapour - evaporation
	Consumer - inhalation, short-term - systemic
Exposure estimate	280,4306 mg/m ³
Risk Characterization Ratio (RCR)	0,934769
	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	PC9b: Fillers, putties, plasters, modelling clay
Operational conditions	
Concentration of the substance	n-butyl acetate Content: $\geq 0\%$ - $\leq 15\%$

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Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
body weight	65 kg
Contact rate	0,33 mg/min
Release duration	1,33 min
	Relevant for dermal exposure estimates
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Dermal model: constant application rate
	Consumer - dermal, short-term - systemic
Exposure estimate	0,001 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,000169
	The calculation is based on the external dose.
Guidance to Downstream Users	
For scaling see: http://www.rivm.nl/en/healthandddisease/productsafety/ConsExpo.jsp	

Contributing exposure scenario	
Use descriptors covered	PC9b: Fillers, putties, plasters, modelling clay
Operational conditions	
Concentration of the substance	n-butyl acetate Content: >= 0 % - <= 15 %
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
body weight	65 kg
	Amount per use 2 g Relevant for dermal exposure estimates
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Dermal model: instant application
	Consumer - dermal, short-term - systemic
Exposure estimate	4,6154 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,769231
	The calculation is based on the external dose.
Guidance to Downstream Users	
For scaling see: http://www.rivm.nl/en/healthandddisease/productsafety/ConsExpo.jsp	

Contributing exposure scenario	
Use descriptors covered	PC9b: Fillers, putties, plasters, modelling clay
Operational conditions	
Concentration of the substance	n-butyl acetate

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	Content: $\geq 0\%$ - $\leq 35\%$
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
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
Temperature (Application)	20 °C
body weight	65 kg
	Amount per use 0,05 g Relevant for dermal exposure estimates
Release area	200 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 v4.1, ConsExpo v4.1, Dermal model: instant application
	Consumer - dermal, short-term - systemic
Exposure estimate	0,2692 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,044872
	The calculation is based on the external dose.
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Inhalation model: exposure to vapour - evaporation
	Consumer - inhalation, short-term - systemic
Exposure estimate	262,153 mg/m ³
Risk Characterization Ratio (RCR)	0,873843
	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	PC9b: Fillers, putties, plasters, modelling clay
Operational conditions	
Concentration of the substance	n-butyl acetate Content: $\geq 0\%$ - $\leq 5\%$
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	50 uses per year

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Exposed skin area	Both hands (820 cm ²)
Uptake fraction dermal	100 %
Uptake fraction oral	100 %
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA, Consumer
	Consumer - dermal, long-term - systemic
Exposure estimate	2,544 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,424
Assessment method	EASY TRA v4.1, ECETOC TRA, Consumer
	Consumer - oral, long-term - systemic
Exposure estimate	1 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,5
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PC18: Ink and Toners.
Operational conditions	
Concentration of the substance	n-butyl acetate Content: >= 0 % - <= 25 %
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 25 min Relevant for inhalative exposure estimates
Room size	34 m ³
Ventilation rate per hour	1,5
body weight	65 kg
Spray duration	798 sec
Contact rate	110 mg/min
Release duration	13,3 min
	Relevant for dermal exposure estimates
Risk Management Measures	
Consumer Measures	Ensure spraying away from persons.
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Dermal model: constant application rate
	Consumer - dermal, short-term - systemic
Exposure estimate	5,6269 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,937821
	The calculation is based on the external dose.
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Inhalation model: Exposure to spray/dust

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	Consumer - inhalation, short-term - systemic
Exposure estimate	1,6999 mg/m ³
Risk Characterization Ratio (RCR)	0,005666
	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	

9. Short title of exposure scenario

Use in Coatings, Use in Paints, Use in Printing inks, Use in Adhesives
PW; ERC8a, ERC8d; PROC10, PROC11, PROC13, PROC19

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	CEPE SPERC 8a.2a.v1: CEPE SPERC 8a.2a.v1
Operational conditions	
Annual amount used in the EU	2.000.000 kg
Minimum emission days per year	225
Emission factor air	99 %
Emission factor water	1 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Wastewater treatment measures considered suitable are, e.g.	STP
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,012923
	Risk from environmental exposure is driven by freshwater sediment.
Maximum amount of safe use	1.934,6 kg/d

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Risk from environmental exposure is driven by freshwater sediment.

Contributing exposure scenario	
Use descriptors covered	CEPE SPERC 8d.3a.v1
Operational conditions	
Annual amount used in the EU	2.000.000 kg
Minimum emission days per year	225
Emission factor air	98 %
Emission factor water	2 %
Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,092422
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	1.082 kg/d
Risk from environmental exposure is driven by soil.	

Contributing exposure scenario	
Use descriptors covered	PROC10: Roller application or brushing Use domain: professional
Operational conditions	
Concentration of the substance	n-butyl acetate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week

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Indoor/Outdoor	Indoor
Risk Management Measures	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	2,7429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,249351
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	145,1979 mg/m ³
Risk Characterization Ratio (RCR)	0,483993
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

Contributing exposure scenario	
Use descriptors covered	PROC11: Non industrial spraying Use domain: professional
Operational conditions	
Concentration of the substance	n-butyl acetate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Ensure minimization of manual phases Clean equipment and the work area every day. Regular inspection and maintenance of equipment and machines. Ensure that the task is being carried out outside the breathing zone of a worker (distance head-product greater than 1m). Avoid frequent and direct contact	

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with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid splashing.	
Ensure that a spraying booth is used.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	10,7143 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,974026
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	0,0001 mg/m ³
Risk Characterization Ratio (RCR)	0,000001
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC11: Non industrial spraying Use domain: professional
Operational conditions	
Concentration of the substance	n-butyl acetate Content: >= 0 % - <= 45 %
Physical state	liquid
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Clean equipment and the work area every day. Regular inspection and maintenance of equipment and machines. Ensure doors and windows are opened	

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(general ventilation). Avoid splashing.	
Use a local exhaust ventilation with adequate effectiveness., Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, worker, modified version, The concentration of the substance has been considered using a linear approach.
	Worker - dermal, long-term - systemic
Exposure estimate	4,8214 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,438312
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, worker, modified version
	Worker - inhalation, long-term - local
Exposure estimate	153 mg/m ³
Risk Characterization Ratio (RCR)	0,51
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC11: Non industrial spraying Use domain: professional
Operational conditions	
Concentration of the substance	n-butyl acetate Content: >= 0 % - <= 45 %
Physical state	liquid
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Ensure minimization of manual phases Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Clean equipment and the work area every day. Regular inspection and maintenance of equipment and machines. Avoid	

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splashing. Ensure doors and windows are opened (general ventilation).	
Wear a half mask respirator with type P2L filter or better.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, worker, modified version, The concentration of the substance has been considered using a linear approach.
	Worker - dermal, long-term - systemic
Exposure estimate	4,8214 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,438312
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, worker, modified version
	Worker - inhalation, long-term - local
Exposure estimate	116 mg/m ³
Risk Characterization Ratio (RCR)	0,386667
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC13: Treatment of articles by dipping and pouring. Use domain: professional
Operational conditions	
Concentration of the substance	n-butyl acetate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1,3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,124675

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Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	145,1979 mg/m ³
Risk Characterization Ratio (RCR)	0,483993
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	
Concentration of the substance	n-butyl acetate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	240 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 80 %
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Provide a good standard of general ventilation (not less than 3 - 5 air changes per hour)	Effectiveness: 30 %
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	8,4857 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,771429
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	67,759 mg/m ³
Risk Characterization Ratio (RCR)	0,225863
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	
Concentration of the substance	n-butyl acetate

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	Content: $\geq 0\%$ - $\leq 100\%$
Physical state	liquid
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	60 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Provide a good standard of general or controlled ventilation (5 to 10 air changes per hour)	Effectiveness: 70 %
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	2,8286 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,257143
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	145,1979 mg/m ³
Risk Characterization Ratio (RCR)	0,483993
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

10. Short title of exposure scenario

Use in Coatings, Use in Paints, Use in Printing inks, Use in Adhesives
IS; ERC4; PROC7, PROC10, PROC13

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	CEPE SPERC 4.1a.v1: CEPE SPERC 4.1a.v1
Operational conditions	
Annual amount used in the EU	43.000.000 kg
Minimum emission days per year	225
Emission factor air	0,8 %
Emission factor water	2 %

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Version: 4.0

Date / Previous version: 06.09.2023

Previous version: 3.0

Product: **n-BUTYL ACETATE**

(ID no. 30034818/SDS_GEN_DE/EN)

Date of print 09.10.2025

Emission factor soil	0 %
Receive Surf. Water (Flow Rate).	18.000 m3/d
Dilution factor river	10
Dilution factor coast	100
Risk Management Measures	
Air treatment measures considered suitable are, e.g.	Waste gas treatment by thermal oxidation
Type of STP	Municipal STP
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment
Risk Characterization Ratio (RCR)	0,925355
	Risk from environmental exposure is driven by soil.
Maximum amount of safe use	1.080,7 kg/d
Risk from environmental exposure is driven by soil.	

Contributing exposure scenario	
Use descriptors covered	PROC7: Industrial spraying Use domain: industrial
Operational conditions	
Concentration of the substance	n-butyl acetate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Ensure minimization of manual phases Clean equipment and the work area every day. Regular inspection and maintenance of equipment and machines. Ensure that the task is being carried out outside	

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the breathing zone of a worker (distance head-product greater than 1m). Avoid frequent and direct contact with substance. Supervision in place to check that the RMMs in place are being used correctly and OCs followed. Avoid splashing.	
Ensure that a spraying booth is used.	
Wear suitable working clothes.	
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	4,2857 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,38961
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	0,0001 mg/m ³
Risk Characterization Ratio (RCR)	0,000001
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates)	

Contributing exposure scenario	
Use descriptors covered	PROC10: Roller application or brushing Use domain: industrial
Operational conditions	
Concentration of the substance	n-butyl acetate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	2,7429 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,249351
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker

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	Worker - inhalation, long-term - local
Exposure estimate	24,1996 mg/m ³
Risk Characterization Ratio (RCR)	0,080665
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	n-butyl acetate Content: >= 0 % - <= 100 %
Physical state	liquid
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	480 min 5 days per week
Indoor/Outdoor	Indoor
Risk Management Measures	
Local exhaust ventilation	Effectiveness: 90 %
Wear chemically resistant gloves in combination with 'basic' employee training.	Effectiveness: 90 %
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - dermal, long-term - systemic
Exposure estimate	1,3714 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,124675
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Worker
	Worker - inhalation, long-term - local
Exposure estimate	24,1996 mg/m ³
Risk Characterization Ratio (RCR)	0,080665
Guidance to Downstream Users	
For scaling see: http://www.ecetoc.org/tra	

11. Short title of exposure scenario

Consumer applications

C; ERC8a; PC39

Control of exposure and risk management measures

Contributing exposure scenario

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Use descriptors covered	ESVOC SpERC 8.16.v1: ESVOC SpERC 8.16.v1	
Operational conditions		
Annual amount used in the EU	1.000.000 kg	
Minimum emission days per year	365	
Emission factor air	95 %	
Emission factor water	2,5 %	
Emission factor soil	2,5 %	
Receive Surf. Water (Flow Rate).	18.000 m3/d	
Dilution factor river	10	
Dilution factor coast	100	
Risk Management Measures		
Type of STP	Municipal STP	
Assumed sewage treatment plant flow (m3/d)	2.000 m3/d	
Exposure estimate and reference to its source		
Assessment method	EASY TRA v4.1, ECETOC TRA v3.0, Environment	
Risk Characterization Ratio (RCR)	0,002535	
	Risk from environmental exposure is driven by freshwater sediment.	
Maximum amount of safe use	54 kg/d	
Risk from environmental exposure is driven by freshwater sediment.		

Contributing exposure scenario	
Use descriptors covered	PC39: Cosmetics, personal care products.
Operational conditions	
Concentration of the substance	n-butyl acetate Content: >= 0 % - <= 10 %
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 5 min Relevant for inhalative exposure estimates
Duration and Frequency of activity	Application duration: 5 min Relevant for inhalative exposure estimates
Temperature (Application)	20 °C
body weight	61 kg

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	Amount per use 0,2 g Relevant for dermal exposure estimates
Release area	25 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 v4.1, ConsExpo v4.1, Dermal model: instant application
	Consumer - dermal, short-term - systemic
Exposure estimate	0,3279 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,054645
	The calculation is based on the external dose.
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Inhalation model: exposure to vapour - evaporation
	Consumer - inhalation, short-term - systemic
Exposure estimate	47,6729 mg/m ³
Risk Characterization Ratio (RCR)	0,15891
	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	PC39: Cosmetics, personal care products.
Operational conditions	
Concentration of the substance	n-butyl acetate Content: >= 0 % - <= 30 %
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
Duration and Frequency of activity	Exposure duration: 5 min Relevant for inhalative exposure estimates
Duration and Frequency of activity	Application duration: 5 min Relevant for inhalative exposure estimates
Temperature (Application)	20 °C
body weight	61 kg
	Amount per use 0,05 g Relevant for dermal exposure estimates
Release area	19 cm ²
	Release area is constant
Release duration	5 min
	Relevant for inhalative exposure estimates
Exposure estimate and reference to its source	

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Assessment method	EASY TRA v4.1, ConsExpo v4.1, Dermal model: instant application
	Consumer - dermal, short-term - systemic
Exposure estimate	0,2459 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,040984
	The calculation is based on the external dose.
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Inhalation model: exposure to vapour - evaporation
	Consumer - inhalation, short-term - systemic
Exposure estimate	71,5094 mg/m ³
Risk Characterization Ratio (RCR)	0,238365
	The exposure calculation is based on a single use of the product.
Guidance to Downstream Users	
For scaling see: http://www.rivm.nl/en/healthandddisease/productsafety/ConsExpo.jsp	

Contributing exposure scenario	
Use descriptors covered	PC39: Cosmetics, personal care products.
Operational conditions	
Concentration of the substance	n-butyl acetate Content: >= 0 % - <= 30 %
Vapour pressure of the substance during use	1120 Pa
Process temperature	20 °C
body weight	61 kg
	Amount per use 0,8 g Relevant for dermal exposure estimates
Exposure estimate and reference to its source	
Assessment method	EASY TRA v4.1, ConsExpo v4.1, Dermal model: instant application
	Consumer - dermal, short-term - systemic
Exposure estimate	3,9344 mg/kg bw/day
Risk Characterization Ratio (RCR)	0,655738
	The calculation is based on the external dose.
Guidance to Downstream Users	
For scaling see: http://www.rivm.nl/en/healthandddisease/productsafety/ConsExpo.jsp	
