

Safety data sheet

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

Date / Revised: 15.09.2022

Version: 4.0

Date previous version: 20.10.2020

Previous version: 3.0

Date / First version: 18.11.2014

Product: **Hydroxyciol**

(ID no. 30035061/SDS_GEN_GB/EN)

Date of print 21.10.2025

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

1.1. Product identifier

Hydroxyciol

Chemical name: 3,7-Dimethyloctane-1,7-diol

CAS Number: 107-74-4

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

Relevant identified uses: Chemical, Chemical for detergents, Chemical for soaps, detergents and cosmetic

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

1.3. Details of the supplier of the safety data sheet

Company:

BASF SE
67056 Ludwigshafen
GERMANY

Contact address:

BASF plc
4th and 5th Floors, 2 Stockport Exchange
Railway Road, Stockport, SK1 3GG
UNITED KINGDOM

Telephone: +44 161 475 3000

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

1.4. Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

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

Eye Dam./Irrit. 2

H319 Causes serious eye irritation.

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

2.2. Label elements

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

Pictogram:



Signal Word:

Warning

Hazard Statement:

H319 Causes serious eye irritation.

Precautionary Statements (Prevention):

P280 Wear eye protection.

P264 Wash contaminated body parts thoroughly after handling.

Precautionary Statements (Response):

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical attention.

2.3. Other hazards

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

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

SECTION 3: Composition/Information on Ingredients

3.1. Substances

Chemical nature

3,7-Dimethyloctane-1,7-diol

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EC-Number: 203-517-1

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

3.2. Mixtures

Not applicable

SECTION 4: First-Aid Measures

4.1. Description of first aid measures

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.

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:

carbon dioxide, dry powder, foam, water spray

Unsuitable extinguishing media for safety reasons:

water jet

5.2. Special hazards arising from the substance or mixture

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Endangering substances: carbon oxides, harmful vapours

Advice: The substances/groups of substances mentioned can be released in case of fire.

5.3. Advice for fire-fighters

Special protective equipment:

Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Cool endangered containers with water-spray.

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Information regarding personal protective measures, see section 8.

Ensure adequate ventilation. Do not breathe vapour/spray. Avoid contact with the skin, eyes and clothing.

6.2. Environmental precautions

Do not discharge into drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

For small amounts: Contain with absorbent material (e.g. sand, silica gel, acid binder, general purpose binder, sawdust).

For large amounts: Dike spillage. Pump off product.

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.

SECTION 7: Handling and Storage

7.1. Precautions for safe handling

Ensure thorough ventilation of stores and work areas. Wear suitable protective clothing and eye/face protection. Avoid contact with the skin, eyes and clothing. Keep container tightly sealed.

Protection against fire and explosion:

Take precautionary measures against static discharges. Avoid all sources of ignition: heat, sparks, open flame.

7.2. Conditions for safe storage, including any incompatibilities

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

7.3. Specific end use(s)

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| 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

| No substance specific occupational exposure limits known.

PNEC

STP: 100 mg/l

freshwater: 1 mg/l

marine water: 0.01 mg/l

DNEL

worker:

Long-term exposure- systemic effects, dermal: 4.67 mg/kg

worker:

Long-term exposure- systemic effects, Inhalation: 16.4 mg/m³

consumer:

Long-term exposure- systemic effects, dermal: 1.67 mg/kg

consumer:

Long-term exposure- systemic effects, Inhalation: 2.9 mg/m³

consumer:

Long-term exposure- systemic effects, oral: 1.67 mg/kg

8.2. Exposure controls

Personal protective equipment

Respiratory protection:

Suitable respiratory protection for higher concentrations or long-term effect: Gas filter for gases/vapours of organic compounds (boiling point >65 °C, e. g. EN 14387 Type A)

Consider the risk management measures as outlined in the exposure scenario.

Hand protection:

Suitable chemical resistant safety gloves (EN ISO 374-1) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc.

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

Consider the risk management measures as outlined in the exposure scenario.

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Consider the risk management measures as outlined in the exposure scenario.

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).

Consider the risk management measures as outlined in the exposure scenario.

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 contact with eyes. No eating, drinking, smoking or tobacco use at the place of work. Hands and/or face should be washed before breaks and at the end of the shift. Store work clothing separately.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Form:	liquid, viscous	
Colour:	colourless, clear	
Odour:	sweetish, flowery	
Odour threshold:	< 100 ppm	
pH value:	5.5 (30.1 g/l, 25 °C)	(Directive 92/69/EEC, A.6)
Melting point:	< -100 °C (> 991 - < 997.6 hPa)	
Boiling point:	> 268 - < 270 °C (> 991 - < 997.6 hPa)	
Flash point:	> 93 °C Literature data.	(other, closed cup)
Evaporation rate:	Value can be approximated from Henry's Law Constant or vapor pressure.	
Flammability:	hardly combustible	(derived from flash point)

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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.	
Ignition temperature:	360 °C	(Regulation 440/2008/EC, A.15)
Vapour pressure:	0.0001 hPa (20 °C) 0.00019 hPa (25 °C) 0.0036 hPa (50 °C)	
Density:	0.937 g/cm3 (20 °C) Literature data.	(other)
Relative density:	0.922 - 0.930 (25 °C)	
Relative vapour density (air):	> 1 (20 °C) Heavier than air.	(calculated)
Solubility in water:	30.1 g/l (25 °C, pH 5.5)	(Directive 92/69/EEC, A.6)
Partitioning coefficient n-octanol/water (log Kow):	1.59 (25 °C; pH value: 3.8 - 4.8)	
Self ignition:	Based on its structural properties the product is not classified as self-igniting.	Test type: Spontaneous self-ignition at room-temperature.
Thermal decomposition:	> 200 °C No decomposition if stored and handled as prescribed/indicated.	
Viscosity, dynamic:	not determined	
Explosion hazard:	not explosive	
Fire promoting properties:	Based on its structural properties the product is not classified as oxidizing.	

9.2. Other information

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

pKA:
The substance does not dissociate.

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Adsorption/water - soil:	KOC: 10; log KOC: 1.0 Adsorption to solid soil phase is not expected.	(calculated)
Surface tension:	Based on chemical structure, surface activity is not to be expected.	
Grain size distribution:	The substance / product is marketed or used in a non solid or granular form.	
Molar mass:	174.28 g/mol	

SECTION 10: Stability and Reactivity

10.1. Reactivity

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

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

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

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

10.4. Conditions to avoid

See SDS section 7 - Handling and storage.

10.5. Incompatible materials

Substances to avoid:

None known during use and storage if used according to instructions.

10.6. Hazardous decomposition products

Hazardous decomposition products:

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

SECTION 11: Toxicological Information

11.1. Information on toxicological effects

Acute toxicity

Assessment of acute toxicity:

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

Experimental/calculated data:

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LD50 rat (oral): > 5,000 mg/kg

LD50 rabbit (dermal): > 5,000 mg/kg

Irritation

Assessment of irritating effects:

Not irritating to the skin. Eye contact causes irritation.

Experimental/calculated data:

Skin corrosion/irritation

rabbit: non-irritant (OECD Guideline 404)

Serious eye damage/irritation

rabbit: Irritant. (OECD Guideline 405)

Respiratory/Skin sensitization

Assessment of sensitization:

Skin sensitizing effects were not observed in animal studies.

Experimental/calculated data:

Mouse ear swelling test (MEST) mouse: Non-sensitizing. (other)

Germ cell mutagenicity

Assessment of mutagenicity:

The substance was not mutagenic in bacteria. The substance was not mutagenic in studies with mammals.

Carcinogenicity

Assessment of carcinogenicity:

No data available concerning carcinogenic effects.

Reproductive toxicity

Assessment of reproduction toxicity:

No data available.

Developmental toxicity

Assessment of teratogenicity:

No data available.

Specific target organ toxicity (single exposure)

Assessment of STOT single:

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Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

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

Assessment of repeated dose toxicity:

Repeated oral uptake of the substance did not cause substance-related effects.

Aspiration hazard

not applicable

SECTION 12: Ecological Information

12.1. Toxicity

Assessment of aquatic toxicity:

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

Toxicity to fish:

LC50 (96 h) approx. 464 mg/l, Brachydanio rerio (OECD Guideline 203, static)

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

Aquatic invertebrates:

EC50 (48 h) > 100 mg/l, Daphnia magna (OECD Guideline 202, part 1, static)

Limit concentration test only (LIMIT test).

Aquatic plants:

No observed effect concentration (72 h) \geq 100 mg/l (growth rate), Desmodesmus subspicatus (OECD Guideline 201, static)

EC50 (72 h) > 100 mg/l (growth rate), Desmodesmus subspicatus (OECD Guideline 201, static)

Microorganisms/Effect on activated sludge:

EC10 (16 h) 3,310 mg/l, Pseudomonas putida (DIN EN ISO 10712, aquatic)

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

EC20 (30 min) > 1,000 mg/l, activated sludge, domestic (OECD Guideline 209, aerobic)

Assessment of terrestrial toxicity:

No data available.

12.2. Persistence and degradability

Assessment biodegradation and elimination (H₂O):

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Readily biodegradable (according to OECD criteria).

Elimination information:

> 60 % BOD of the ThOD (28 d) (OECD 301F; ISO 9408; 92/69/EEC, C.4-D) (aerobic, activated sludge, domestic)

Assessment of stability in water:

No data available.

Information on Stability in Water (Hydrolysis):

No data available.

12.3. Bioaccumulative potential

Assessment bioaccumulation potential:

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

12.4. Mobility in soil

Assessment transport between environmental compartments:

Volatility: The substance will not 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).

12.6. Other adverse effects

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

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Observe national and local legal requirements.

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

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

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SECTION 14: Transport Information

Land transport

ADR

Not classified as a dangerous good under transport regulations

UN number or ID number: Not applicable

UN proper shipping name: Not applicable

Transport hazard class(es): Not applicable

Packing group: Not applicable

Environmental hazards: Not applicable

Special precautions for user: None known

RID

Not classified as a dangerous good under transport regulations

UN number or ID number: Not applicable

UN proper shipping name: Not applicable

Transport hazard class(es): Not applicable

Packing group: Not applicable

Environmental hazards: Not applicable

Special precautions for user: None known

Inland waterway transport

ADN

Not classified as a dangerous good under transport regulations

UN number or ID number: Not applicable

UN proper shipping name: Not applicable

Transport hazard class(es): Not applicable

Packing group: Not applicable

Environmental hazards: Not applicable

Special precautions for user: None known

Transport in inland waterway vessel

Not evaluated

Sea transport

IMDG

Not classified as a dangerous good under transport regulations

UN number or ID number: Not applicable

UN proper shipping name: Not applicable

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Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	None known

Air transport

IATA/ICAO

	Not classified as a dangerous good under transport regulations
UN number or ID number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
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

Maritime transport in bulk is not intended.

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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

Directive 2012/18/EU - Control of Major Accident Hazards involving dangerous substances (EU):
Listed in above regulation: no

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

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

15.2. Chemical Safety Assessment

Chemical Safety Assessment performed

SECTION 16: Other Information

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

Eye Dam./Irrit. 2B

Any other intended applications should be discussed with the manufacturer. Corresponding occupational protection measurements must be followed.

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

Eye Dam./Irrit.

Serious eye damage/eye irritation

H319

Causes serious eye irritation.

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.

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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. Compounding

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

2. Formulation

ERC2; PROC1, PROC3, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC15

3. Use in/as Air care products

ERC8a; PC3

4. Use as fragrance in biocidal products

ERC8a, ERC8d; PC8

5. Use in cosmetics

ERC8a; PC28, PC39

6. Use in washing and cleaning products, (use in industrial settings)

ERC4; PROC1, PROC2, PROC4, PROC7, PROC8b, PROC10, PROC13

7. Use in polishes, wax blends, washing and cleaning products, (use in professional settings)

ERC8a; PROC1, PROC2, PROC4, PROC8a, PROC8b, PROC10, PROC11, PROC13

8. Use in polishes, wax blends, washing and cleaning products, (consumer use)

ERC8a, ERC8d; PC31, PC35

1. Short title of exposure scenario

Compounding

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

Control of exposure and risk management measures

Contributing exposure scenario	
Use descriptors covered	ERC2: Formulation into mixture As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Operational conditions	
Contributing exposure scenario	
Use descriptors covered	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial

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Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	0.01 Pa
Risk Management Measures	
Wear suitable working clothes.	
Avoid contact with eyes.	
Use suitable eye protection.	
Wash off any skin contamination immediately.	
Ensure good work practices are implemented.	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment

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	
Physical state	liquid
Vapour pressure of the substance during use	0.01 Pa
Risk Management Measures	
Wear suitable working clothes.	
Avoid contact with eyes.	
Use suitable eye protection.	
Wash off any skin contamination immediately.	
Ensure good work practices are implemented.	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment

Contributing exposure scenario	
Use descriptors covered	PROC5: Mixing or blending in batch processes Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	0.01 Pa
Risk Management Measures	
Wear suitable working clothes.	
Avoid contact with eyes.	

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Use suitable eye protection.	
Wash off any skin contamination immediately.	
Ensure good work practices are implemented.	
Wear suitable face shield	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment

Contributing exposure scenario	
Use descriptors covered	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	0.01 Pa
Risk Management Measures	
Wear suitable working clothes.	
Avoid contact with eyes.	
Use suitable eye protection.	
Wash off any skin contamination immediately.	
Ensure good work practices are implemented.	
Wear suitable face shield	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	0.01 Pa
Risk Management Measures	
Wear suitable working clothes.	
Avoid contact with eyes.	
Use suitable eye protection.	
Wash off any skin contamination immediately.	
Ensure good work practices are implemented.	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment

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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	
Physical state	liquid
Vapour pressure of the substance during use	0.01 Pa
Risk Management Measures	
Wear suitable working clothes.	
Avoid contact with eyes.	
Use suitable eye protection.	
Wash off any skin contamination immediately.	
Ensure good work practices are implemented.	
Wear suitable face shield	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment

Contributing exposure scenario	
Use descriptors covered	PROC15: Use a laboratory reagent. Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	0.01 Pa
Risk Management Measures	
Wear suitable working clothes.	
Avoid contact with eyes.	
Use suitable eye protection.	
Wash off any skin contamination immediately.	
Ensure good work practices are implemented.	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment

2. Short title of exposure scenario

Formulation

ERC2; PROC1, PROC3, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC15

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Contributing exposure scenario	
Use descriptors covered	ERC2: Formulation into mixture As no environmental hazard was identified no environmental-related exposure assessment and risk characterization was performed.
Operational conditions	

Contributing exposure scenario	
Use descriptors covered	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	0.01 Pa
Risk Management Measures	
Wear suitable working clothes.	
Avoid contact with eyes.	
Use suitable eye protection.	
Wash off any skin contamination immediately.	
Ensure good work practices are implemented.	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment

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	
Physical state	liquid
Vapour pressure of the substance during use	0.01 Pa
Risk Management Measures	
Wear suitable working clothes.	
Avoid contact with eyes.	
Wash off any skin contamination immediately.	
Ensure good work practices are implemented.	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment

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Contributing exposure scenario	
Use descriptors covered	PROC5: Mixing or blending in batch processes Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	0.01 Pa
Risk Management Measures	
Wear suitable working clothes.	
Avoid contact with eyes.	
Use suitable eye protection.	
Wash off any skin contamination immediately.	
Ensure good work practices are implemented.	
Wear suitable face shield	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment

Contributing exposure scenario	
Use descriptors covered	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	0.01 Pa
Risk Management Measures	
Wear suitable working clothes.	
Avoid contact with eyes.	
Use suitable eye protection.	
Wash off any skin contamination immediately.	
Ensure good work practices are implemented.	
Wear suitable face shield	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
Operational conditions	
Physical state	liquid

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Vapour pressure of the substance during use	0.01 Pa
Risk Management Measures	
Wear suitable working clothes.	
Avoid contact with eyes.	
Use suitable eye protection.	
Wash off any skin contamination immediately.	
Ensure good work practices are implemented.	
Wear suitable face shield	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment

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	
Physical state	liquid
Vapour pressure of the substance during use	0.01 Pa
Risk Management Measures	
Wear suitable working clothes.	
Avoid contact with eyes.	
Use suitable eye protection.	
Wash off any skin contamination immediately.	
Ensure good work practices are implemented.	
Wear suitable face shield	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment

Contributing exposure scenario	
Use descriptors covered	PROC14: Tableting, compression, extrusion, pelletisation, granulation Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	0.01 Pa
Risk Management Measures	
Wear suitable working clothes.	
Avoid contact with eyes.	
Use suitable eye protection.	
Wash off any skin contamination	

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immediately.	
Ensure good work practices are implemented.	
Wear suitable face shield	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment

Contributing exposure scenario	
Use descriptors covered	PROC15: Use a laboratory reagent. Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	0.01 Pa
Risk Management Measures	
Wear suitable working clothes.	
Avoid contact with eyes.	
Use suitable eye protection.	
Wash off any skin contamination immediately.	
Ensure good work practices are implemented.	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment

3. Short title of exposure scenario

Use in/as Air care products

ERC8a; PC3

Control of exposure and risk management measures

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

Contributing exposure scenario	
Use descriptors covered	PC3: Air care products. In consumer products, the substance is used at concentrations that are no longer corrosive or irritating. The risk is therefore assumed to be controlled.

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Operational conditions	
Vapour pressure of the substance during use	0.01 Pa

4. Short title of exposure scenario

Use as fragrance in biocidal products

ERC8a, ERC8d; PC8

Control of exposure and risk management measures

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

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

Contributing exposure scenario	
Use descriptors covered	PC8: Biocidal Products. In consumer products, the substance is used at concentrations that are no longer corrosive or irritating. The risk is therefore assumed to be controlled.
Operational conditions	
Vapour pressure of the substance during use	0.01 Pa

5. Short title of exposure scenario

Use in cosmetics

ERC8a; PC28, PC39

Control of exposure and risk management measures

Contributing exposure scenario

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

Contributing exposure scenario	
Use descriptors covered	PC28: Perfumes, Fragrances. In accordance to the Article 14 (5b) of the REACH Regulation (EC) No 1907/2006, exposure estimation and risk characterisation needs not to be performed for end uses in cosmetic products within the scope of Directive EC 1223/2009.
Operational conditions	
Vapour pressure of the substance during use	0.01 Pa

Contributing exposure scenario	
Use descriptors covered	PC39: Cosmetics, personal care products. In accordance to the Article 14 (5b) of the REACH Regulation (EC) No 1907/2006, exposure estimation and risk characterisation needs not to be performed for end uses in cosmetic products within the scope of Directive EC 1223/2009.
Operational conditions	
Vapour pressure of the substance during use	0.01 Pa

6. Short title of exposure scenario

Use in washing and cleaning products, (use in industrial settings)

ERC4; PROC1, PROC2, PROC4, PROC7, PROC8b, PROC10, PROC13

Control of exposure and risk management measures

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

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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	
Physical state	liquid
Vapour pressure of the substance during use	0.01 Pa
Risk Management Measures	
Wear suitable working clothes.	
Avoid contact with eyes.	
Use suitable eye protection.	
No specific measures identified.	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment

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	
Physical state	liquid
Vapour pressure of the substance during use	0.01 Pa
Risk Management Measures	
Wear suitable working clothes.	
Avoid contact with eyes.	
Use suitable eye protection.	
No specific measures identified.	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment

Contributing exposure scenario	
Use descriptors covered	PROC4: Chemical production where opportunity for exposure arises Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	0.01 Pa
Risk Management Measures	
Wear suitable working clothes.	
Avoid contact with eyes.	
Use suitable eye protection.	

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No specific measures identified.	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment

Contributing exposure scenario	
Use descriptors covered	PROC7: Industrial spraying Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	0.01 Pa
Risk Management Measures	
Wear suitable working clothes.	
Avoid contact with eyes.	
Use suitable eye protection.	
No specific measures identified.	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	0.01 Pa
Risk Management Measures	
Wear suitable working clothes.	
Avoid contact with eyes.	
Use suitable eye protection.	
No specific measures identified.	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment

Contributing exposure scenario	
Use descriptors covered	PROC10: Roller application or brushing Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	0.01 Pa
	Air concentration is limited to the saturated air concentration of the pure compound.
Risk Management Measures	
Wear suitable working clothes.	

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Avoid contact with eyes.	
Use suitable eye protection.	
No specific measures identified.	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment

Contributing exposure scenario	
Use descriptors covered	PROC13: Treatment of articles by dipping and pouring. Use domain: industrial
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	0.01 Pa
Risk Management Measures	
Wear suitable working clothes.	
Avoid contact with eyes.	
Use suitable eye protection.	
No specific measures identified.	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment

7. Short title of exposure scenario

Use in polishes, wax blends, washing and cleaning products, (use in professional settings)

ERC8a; PROC1, PROC2, PROC4, PROC8a, PROC8b, PROC10, PROC11, PROC13

Control of exposure and risk management measures

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

Contributing exposure scenario	
Use descriptors covered	PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. Use domain: professional
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	0.01 Pa

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Risk Management Measures	
Wear suitable working clothes.	
Avoid contact with eyes.	
No specific measures identified.	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment

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: professional
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	0.01 Pa
Risk Management Measures	
Wear suitable working clothes.	
Avoid contact with eyes.	
No specific measures identified.	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment

Contributing exposure scenario	
Use descriptors covered	PROC4: Chemical production where opportunity for exposure arises Use domain: professional
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	0.01 Pa
Risk Management Measures	
Wear suitable working clothes.	
Avoid contact with eyes.	
Ensure doors and windows are opened (general ventilation).	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment

Contributing exposure scenario	
Use descriptors covered	PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities Use domain: professional
Operational conditions	
Physical state	liquid
Vapour pressure of the substance	0.01 Pa

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during use	
Risk Management Measures	
Wear suitable working clothes.	
Avoid contact with eyes.	
Ensure doors and windows are opened (general ventilation).	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment

Contributing exposure scenario	
Use descriptors covered	PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities Use domain: professional
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	0.01 Pa
Risk Management Measures	
Wear suitable working clothes.	
Avoid contact with eyes.	
Ensure doors and windows are opened (general ventilation).	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment

Contributing exposure scenario	
Use descriptors covered	PROC10: Roller application or brushing Use domain: professional
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	0.01 Pa
	Air concentration is limited to the saturated air concentration of the pure compound.
Risk Management Measures	
Wear suitable working clothes.	
Avoid contact with eyes.	
Ensure doors and windows are opened (general ventilation).	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment

Contributing exposure scenario	
Use descriptors covered	PROC11: Non industrial spraying Use domain: professional
Operational conditions	

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Physical state	liquid
Vapour pressure of the substance during use	0.01 Pa
Risk Management Measures	
Wear suitable working clothes.	
Avoid contact with eyes.	
Ensure doors and windows are opened (general ventilation).	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment

Contributing exposure scenario	
Use descriptors covered	PROC13: Treatment of articles by dipping and pouring. Use domain: professional
Operational conditions	
Physical state	liquid
Vapour pressure of the substance during use	0.01 Pa
Risk Management Measures	
Wear suitable working clothes.	
Avoid contact with eyes.	
Ensure doors and windows are opened (general ventilation).	
Exposure estimate and reference to its source	
Assessment method	Qualitative assessment

8. Short title of exposure scenario

Use in polishes, wax blends, washing and cleaning products, (consumer use)

ERC8a, ERC8d; PC31, PC35

Control of exposure and risk management measures

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

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

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	characterization was performed.
Operational conditions	

Contributing exposure scenario	
Use descriptors covered	PC31: Polishes and Wax Blends. In consumer products, the substance is used at concentrations that are no longer corrosive or irritating. The risk is therefore assumed to be controlled.
Operational conditions	
Vapour pressure of the substance during use	0.01 Pa

Contributing exposure scenario	
Use descriptors covered	PC35: Washing and Cleaning Products (including solvent based products). In consumer products, the substance is used at concentrations that are no longer corrosive or irritating. The risk is therefore assumed to be controlled.
Operational conditions	
Vapour pressure of the substance during use	0.01 Pa
