

SAFETY DATA SHEET**PRF TCC**

The safety data sheet is in accordance with Commission Regulation (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

Date issued 11.01.2023

Revision date 23.02.2023

1.1. Product identifier

Product name PRF TCC

Article no. PETCC52

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

Use of the substance / mixture Cleaning agent PC-CLN-OTH Other cleaning, care and maintenance products (excludes biocidal products)

1.3. Details of the supplier of the safety data sheet

Company name Taerosol Oy

Postal address Hampuntie 21

Postcode 36220

City Kangasala

Country Finland

Telephone number +358 33565600

Website www.taerosol.com

Enterprise No. 02847686

1.4. Emergency telephone number


Emergency telephone Telephone number: 112 / Finnish Poison Information Center: 0800 147 111, 24/7

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008 [CLP / GHS] Aerosol 1; H222,H229
Skin Irrit. 2; H315

	STOT SE 3; H336
	Repr. 2; H361
	STOT RE 2; H373
	Aquatic Chronic 2; H411
Substance / mixture hazardous properties	May explode if heated Vapours may form explosive mixture with air.
Additional information on classification	For the full text of the statements mentioned in this Section, see Section 16.

2.2. Label elements

Hazard pictograms (CLP)	
	
Composition on the label	Hydrocarbons, C6, n-alkanes, isoalkanes, cyclic, n-hexane-rich
Signal word	Danger
Hazard statements	<p>H222 Extremely flammable aerosol.</p> <p>H229 Pressurised container: May burst if heated.</p> <p>H315 Causes skin irritation.</p> <p>H336 May cause drowsiness or dizziness.</p> <p>H361 Suspected of damaging fertility or the unborn child</p> <p>H373 May cause damage to organs through prolonged or repeated exposure</p> <p>H411 Toxic to aquatic life with long lasting effects.</p>
Precautionary statements	<p>P102 Keep out of reach of children.</p> <p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P211 Do not spray on an open flame or other ignition source.</p> <p>P251 Do not pierce or burn, even after use.</p> <p>P260 Do not breathe vapours/spray.</p> <p>P280 Wear protective gloves.</p> <p>P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C / 122°F.</p>

2.3. Other hazards

PBT / vPvB	See section 12.5
Health effect	See section 11.2

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents	Notes
Hydrocarbons, C6, n-alkanes, isoalkanes, cyclic, n-hexane-rich	REACH Reg. No.: 01-2119474209-33-XXXX	Flam. Liq. 2; H225 Skin Irrit. 2; H315 STOT SE 3; H336	< 70 %	

Asp. Tox. 1; H304
 Aquatic Chronic 2; H411
 Repr. 2; H361
 STOT RE 2; H373

Substance comments

Aerosol propellants: Propane Butane Isobutane
 Contains: aliphatic hydrocarbons $\geq 30\%$
 For the full text of the statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General	IF exposed or concerned: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.
Inhalation	Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.
Skin contact	Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. When symptoms persist or in all cases of doubt seek medical advice.
Ingestion	Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

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

General symptoms and effects	Skin irritation Drowsiness Dizziness Aspiration hazard if swallowed - can enter lungs and cause damage. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.
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4.3. Indication of any immediate medical attention and special treatment needed

Medical treatment	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Improper extinguishing media	Water spray

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	May explode if heated Vapours may form explosive mixture with air.
Hazardous combustion products	Carbon dioxide (CO ₂) Carbon monoxide (CO)

5.3. Advice for firefighters

Personal protective equipment	In accordance with the requirements of EN 469, firefighter's clothing with a helmet, protective boots and gloves provides a basic level of protection against
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	chemical accidents. In case of inadequate ventilation wear respiratory protection. See section 8.2
Fire fighting procedures	Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	Use personal protective equipment. See section 8.2 Eliminate all ignition sources if safe to do so. Ensure adequate ventilation. Stop leak if safe to do so. Evacuate area.
For emergency responders	Use personal protective equipment. See section 8.2

6.2. Environmental precautions

Environmental precautionary measures	Try to prevent the material from entering drains or water courses. Avoid release to the environment. Collect spillage.
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6.3. Methods and material for containment and cleaning up

Containment	Prevent further leakage or spillage if safe to do so. Pay attention to the spreading of gases especially at ground level (heavier than air) and to the direction of the wind.
Clean up	Absorb spillage to prevent material damage. Non-sparking tools should be used.

6.4. Reference to other sections

Other instructions	See section 7, 8, 13
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Remove all sources of ignition. Take precautionary measures against static discharges. Non-sparking tools should be used. Ground and bond container and receiving equipment. Keep away from oxidising agents and strongly acid or alkaline materials. Try to prevent the material from entering drains or water courses. Handle in accordance with good industrial hygiene and safety practice. Do not taste or swallow. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Wash hands and skin thoroughly after handling. Do not breathe vapours/spray. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing.
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7.2. Conditions for safe storage, including any incompatibilities

Storage	Remove all sources of ignition. Keep away from oxidising agents and strongly acid or alkaline materials. Take precautionary measures against static discharge. Ground / bond container and receiving equipment. Protect from sunlight. Do not expose to temperatures exceeding 50 °C /122 °F. Keep away from food, drink and animal feedingstuffs. Keep only in original container. Store in a well-ventilated
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place. Keep container tightly closed. Store locked up.

7.3. Specific end use(s)

Specific use(s) None known.

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Substance	Identification	Exposure limits	TWA Year
Hydrocarbons, C6, n-alkanes, isoalkanes, cyclic, n-hexane-rich		Country of origin: FI Limit value (8 h) : 100 mg/m ³ Recommended monitoring procedures: This information is not available. Source: Decree of the Ministry of Social Affairs and Health on concentrations known to be harmful (654/2020)	

DNEL / PNEC

Substance	Hydrocarbons, C6, n-alkanes, isoalkanes, cyclic, n-hexane-rich
DNEL	<p>Group: Professional Route of exposure: Long-term inhalation (systemic) Value: 93 mg/m³</p> <p>Group: Professional Route of exposure: Long-term dermal (systemic) Value: 13 mg/kg bw/day</p> <p>Group: Consumer Route of exposure: Long-term inhalation (systemic) Value: 20 mg/m³</p> <p>Group: Consumer Route of exposure: Long-term dermal (systemic) Value: 7 mg/kg bw/day</p> <p>Group: Consumer Route of exposure: Long-term oral (systemic) Value: 6 mg/kg bw/day</p>

8.2. Exposure controls

Precautionary measures to prevent exposure

Appropriate engineering controls See section 7.1, 7.2

Eye / face protection

Eye protection equipment Description: Usual safety precautions while handling the product will provide

adequate protection against this potential effect. Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

Reference to relevant standard: SFS-EN ISO 4007:2018

SFS-EN ISO 16321-1:2022

SFS-EN ISO 18526-1:2020

SFS-EN ISO 16321-3:2022

SFS-EN ISO 16321-2:2021

SFS-EN ISO 18526-3:2020

SFS-EN ISO 18526-2:2020

SFS-EN ISO 18526-4:2020

SFS-EN ISO 19734:2021

SFS-EN 13911:2017

SFS-EN 16473

SFS-EN 167

SFS-EN 168

SFS-EN 443

Hand protection

Breakthrough time

Comments: As the product is a mixture of several substances, the durability of the glove materials cannot be calculated in advance and has to be tested before use. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Thickness of glove material

Comments: As the product is a mixture of several substances, the durability of the glove materials cannot be calculated in advance and has to be tested before use.

Hand protection equipment

Description: Protective gloves Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. It is good practice in industrial hygiene to avoid contact with solvents by using appropriate protective measures whenever possible.

Reference to relevant standard: SFS-EN ISO 374-1:2017

SFS-EN ISO 374-5:2017

SFS-EN 511

SFS-EN 659 + A1

SFS-EN 1082-1

SFS-EN 1082-2

SFS-EN 1082-3

SFS-EN 14325:2018

SFS-EN 16350

Skin protection

Recommended protective clothing

Description: Protective clothing Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. It is good practice in industrial hygiene to avoid contact with solvents by using appropriate protective measures whenever possible.

Reference to relevant standard: SFS-EN 863

SFS-EN 1149-2

SFS-EN 1149-3

SFS-EN 13034 + A1
 SFS-EN 16689:2017
 SFS-EN ISO 6530
 CEN ISO/TR 11610
 SFS-EN ISO 11612
 SFS-EN ISO 13688
 SFS-EN ISO 13982-1
 SFS-EN ISO 13982-2
 SFS-EN ISO 13995
 SFS-EN ISO 13997
 SFS-EN ISO 14116
 SFS-EN 15090
 CEN ISO/TR 18690

Respiratory protection

Recommended respiratory protection

Description: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Use respirator when performing operations involving potential exposure to vapour of the product. In case of inadequate ventilation wear respiratory protection. The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

Reference to relevant standard: SFS-EN ISO 16972:2020

SFS-EN 13274-1
 SFS-EN 148-1:2019
 SFS-EN 144-1:2018
 SFS-EN 14593-1:2018
 SFS-EN 1146
 SFS-EN 12021
 SFS-EN 12083 + AC
 SFS-EN 12941 + A1 + A2
 SFS-EN 12942 + A1 + A2
 SFS-EN 13274-2:2019
 SFS-EN 13274-4:2020
 SFS-EN 13274-5
 SFS-EN 13274-6
 SFS-EN 13274-3
 SFS-EN 13274-8
 SFS-EN 13274-5
 SFS-EN 13274-7:2019
 SFS-EN 134
 SFS-EN 135
 SFS-EN 136 + AC
 SFS-EN 137
 SFS-EN 13794
 SFS-EN 138
 SFS-EN 140 + AC
 SFS-EN 142
 SFS-EN 143:2021
 SFS-EN 14387:2021
 SFS-EN 144-3 + AC

SFS-EN 144-2:2018
 SFS-EN 14435
 SFS-EN 145/A1
 SFS-EN 145
 SFS-EN 14529
 SFS-EN 14594:2018
 SFS-EN 148-2
 SFS-EN 148-3
 SFS-EN 149 + A1
 SFS-EN 15333-2
 SFS-EN 1825-2
 SFS-EN 1827 + A1
 SFS-EN 250
 SFS-EN 269
 SFS-EN 402
 SFS-EN 403
 SFS-EN 404
 SFS-EN 405 + A1
 SFS-EN 529

Thermal hazards

Thermal hazards	Not applicable.
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Appropriate environmental exposure control

Environmental exposure controls	See section 6.2
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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	Aerosol dispenser: spray aerosol
Colour	clear
Odour	hydrocarbon-like
Odour limit	Reason for waiving data: No data.
pH	Comments: This information is not available.
Melting point / melting range	Reason for waiving data: No data.
Boiling point / boiling range	Reason for waiving data: No data.
Flash point	Reason for waiving data: Not applicable
Flammability	Not applicable.
Lower explosion limit with unit of measurement	Reason for waiving data: No data.
Upper explosion limit with units of measurement	Reason for waiving data: No data.
Vapour pressure	Reason for waiving data: No data.
Vapour density	Reason for waiving data: Not applicable
Particle characteristics	Reason for waiving data: Not applicable

Relative density	Reason for waiving data: Not applicable
Density	Reason for waiving data: Not applicable
Solubility	Comments: This information is not available.
Partition coefficient: n-octanol/ water	Reason for waiving data: No data.
Auto-ignition temperature	Reason for waiving data: Not applicable
Decomposition temperature	Reason for waiving data: Not applicable
Viscosity	Type: Kinematic Reason for waiving data: Not applicable

9.2. Other information

Other physical and chemical properties

Physical and chemical properties	This information is not available.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	See section 5.2
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10.2. Chemical stability

Stability	Stable
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	See section 5.2
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10.4. Conditions to avoid

Conditions to avoid	See section 7.1, 7.2
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10.5. Incompatible materials

Materials to avoid	See section 7.1, 7.2
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10.6. Hazardous decomposition products

Hazardous decomposition products	See section 5.2
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SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Substance	Hydrocarbons, C6, n-alkanes, isoalkanes, cyclic, n-hexane-rich
Acute toxicity	Effect tested: LD50 Route of exposure: Oral Method: OECD 401

Value: 16750 mg/kg
Animal test species: Rat

Effect tested: LD50
Route of exposure: Dermal
Method: OECD 402
Value: 3350 mg/kg
Animal test species: Rabbit

Effect tested: LC50
Route of exposure: Inhalation.
Method: OECD 403
Duration: 4 hour(s)
Value: 259000 mg/l
Animal test species: Rat

Other information regarding health hazards

Assessment of acute toxicity, classification	Based on available data, the classification criteria are not met.
Assessment of skin corrosion / irritation, classification	Irritating to skin.
Assessment of eye damage or irritation, classification	Based on available data, the classification criteria are not met.
Assessment of respiratory sensitisation, classification	Based on available data, the classification criteria are not met.
Assessment of skin sensitisation, classification	Based on available data, the classification criteria are not met.
Assessment of germ cell mutagenicity, classification	Based on available data, the classification criteria are not met.
Assessment of carcinogenicity, classification	Based on available data, the classification criteria are not met.
Assessment of reproductive toxicity, classification	Suspected of damaging fertility or the unborn child.
Assessment of specific target organ toxicity - single exposure, classification	May cause drowsiness or dizziness.
Assessment of specific target organ toxicity - repeated exposure, classification	May cause damage to organs through prolonged or repeated exposure.
Assessment of aspiration hazard, classification	Aspiration hazard if swallowed - can enter lungs and cause damage.

Symptoms of exposure

In case of ingestion	See section 4.2
In case of skin contact	See section 4.2
In case of inhalation	See section 4.2
In case of eye contact	See section 4.2

11.2 Other information

Endocrine disruption	This information is not available.
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SECTION 12: Ecological information

12.1. Toxicity

Substance	Hydrocarbons, C6, n-alkanes, isoalkanes, cyclic, n-hexane-rich
Aquatic toxicity, fish	Toxicity type: Acute Value: 13,4 mg/l Effect dose concentration: LL50 Test duration: 96 hour(s) Method: QSAR Toxicity type: Chronic Value: 2,99 mg/l Effect dose concentration: NOELR Test duration: 28 day(s) Species: Early-life Stage Method: QSAR
Substance	Hydrocarbons, C6, n-alkanes, isoalkanes, cyclic, n-hexane-rich
Aquatic toxicity, algae	Toxicity type: Acute Value: 9,9 mg/l Effect dose concentration: EL50 Test duration: 72 hour(s) Method: QSAR

12.2. Persistence and degradability

Substance	Hydrocarbons, C6, n-alkanes, isoalkanes, cyclic, n-hexane-rich
Biodegradability	Method: OECD 301F Comments: Rapidly biodegradable.
Substance	Hydrocarbons, C6, n-alkanes, isoalkanes, cyclic, n-hexane-rich
Abiotic degradation in air	Evaluation: May decompose on exposure to light.

12.3. Bioaccumulative potential

Bioaccumulation, evaluation	This information is not available.
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12.4. Mobility in soil

Substance	Hydrocarbons, C6, n-alkanes, isoalkanes, cyclic, n-hexane-rich
Surface tension	Value: 18 - 20 mN/m
Substance	Hydrocarbons, C6, n-alkanes, isoalkanes, cyclic, n-hexane-rich
Water / air volatility rate	Comments: Volatile.
Substance	Hydrocarbons, C6, n-alkanes, isoalkanes, cyclic, n-hexane-rich
Soil / air volatility rate	Comments: Volatile.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	This information is not available.
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12.6. Endocrine disrupting properties

Endocrine disrupting properties	This information is not available.
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12.7. Other adverse effects

Additional ecological information	This information is not available.
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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate methods of disposal for the chemical	Dispose of product residue in accordance with the instructions of the person responsible for waste disposal. Avoid putting the substance into waste water.
Appropriate methods of disposal for the contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Where possible recycling is preferred to disposal. Do not pierce or burn, even after use.
EU Regulations	Directive 2008/98/EC of the European Parliament and of the Council on waste and repealing certain Directives

SECTION 14: Transport information

14.1. UN number

ADR/RID/ADN	1950
IMDG	1950
ICAO/IATA	1950

14.2. UN proper shipping name

Proper shipping name English ADR/RID/ADN	AEROSOLS
ADR/RID/ADN	AEROSOLS
IMDG	AEROSOLS
ICAO/IATA	AEROSOLS, FLAMMABLE

14.3. Transport hazard class(es)

ADR/RID/ADN	2.1
Classification code ADR/RID/ADN	5F

14.4. Packing group

Comments	-
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14.5. Environmental hazards

Comments	Yes
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14.6. Special precautions for user

Special safety precautions for user This information is not available.

14.7. Maritime transport in bulk according to IMO instruments

Product name AEROSOLS, FLAMMABLE

Additional information

Hazard label ADR/RID/ADN 2.1

Hazard label IMDG 2.1

Hazard label ICAO/IATA 2.1

ADR/RID Other information

Tunnel restriction code D

Limited quantity 1 L

Excepted quantity E0

Special provisions 190 327 344 625

Transport category 2

ADN Other information

Special provisions 190 327 344 625

Limited quantity 1 L

Excepted quantity E0

IMDG Other information

EmS F-D, S-U

Limited quantity 1000 mL

Excepted quantity E0

Special provisions 63, 190, 277, 327, 344, 381, 959

ICAO/IATA Other information

Limited quantity 30 kg

Excepted quantity E0

Special provisions A145 A165 A802

Additional information ICAO/IATA Cargo: max. 150 kg (203), Pas.: max. 75 kg (203)

SECTION 15: Regulatory information

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

Legislation and regulations	Council Directive 75/324/EEC on the approximation of the laws of the Member States relating to aerosol dispensers Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents The rules which cover amongst other things the requirement for ventilation, protective clothing, personal protective equipment etc. can be obtained from the National Occupational Health and Safety Board.
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15.2. Chemical safety assessment

Chemical safety assessment performed	No
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SECTION 16: Other information

List of relevant H-phrases (Section 2 and 3)	H222 Extremely flammable aerosol. H225 Highly flammable liquid and vapour. H229 Pressurised container: May burst if heated. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H336 May cause drowsiness or dizziness. H361 Suspected of damaging fertility or the unborn child H373 May cause damage to organs through prolonged or repeated exposure H411 Toxic to aquatic life with long lasting effects.
CLP classification, notes	Calculation method. Bridging principle "Aerosols"
Training advice	Provide adequate information, instruction and training for operators. Take notice of the directions of use on the label. To avoid risks to man and the environment, comply with the instructions for use.
Key literature references and sources for data	Information taken from reference works and the literature. http://echa.europa.eu http://eur-lex.europa.eu http://echa-term.echa.europa.eu Ingredient Safety Data Sheets
Abbreviations and acronyms used	CAS = Chemical Abstracts Service CLP = Classification, Labelling and Packaging DMEL = derived minimal effect level DNEL = derived no-effect level EC50 = The effective concentration of substance that causes 50% of the maximum response. ECHA = European Chemicals Agency EINECS = European Inventory of Existing Commercial Chemical Substances ELINCS = European List of Notified Chemical Substances EEA = European Economic Area EU = European Union EC number = The three European lists of substances from the previous EU chemicals regulatory framework, EINECS, ELINCS and the NLP-list, in combination are called the EC Inventory. The EC Inventory is the source for the seven-digit EC number, an identifier of substances commercially available within the European Union. GHS = Global Harmonised System SDS = safety data sheet LC50 = median lethal concentration

	<p>LDx = lethal dose x%</p> <p>LOAEC = lowest observed adverse effect concentration</p> <p>LOAEL = lowest observed adverse effect level</p> <p>LOEC = lowest observed effect concentration</p> <p>LOEL = lowest observed effect level</p> <p>NOAEC = no observed adverse effect concentration</p> <p>NOAEL = no observed adverse effect level</p> <p>NOEC = no observed effect concentration</p> <p>NOEL = no observed effect level</p> <p>PBT = persistent, bioaccumulative and toxic</p> <p>PNEC = predicted no-effect concentration</p> <p>ppm = parts per million</p> <p>QSAR = quantitative structure-activity relationship</p> <p>REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals</p> <p>STOT = specific target organ toxicity</p> <p>UFI = unique formula identifier</p> <p>vPvB = very persistent and very bioaccumulative</p>
Information added, deleted or revised	Relevant changes compared to the previous version of the safety data sheet are indicated with verticle lines in the left margin.
Version	2