

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended



Tana-Chemie GmbH  
Werner & Mertz Group

## SOLUS OXYDET

WM 0715970

Order number: 0715970

Version 1.10

Revision Date 13.03.2025

Print Date 13.08.2025

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

#### 1.1 Product identifier

Trade name : SOLUS OXYDET  
UFI : 61C4-G0DX-N00D-KD19

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

Use of the Substance/Mixture : Cleaning agent  
Restricted to professional users.

#### 1.3 Details of the supplier of the safety data sheet

Company : Tana Chemie GmbH  
Rheinallee 96  
55120 Mainz  
Telephone : +49613196403  
Telefax : +4961319642414  
E-mail address : Produktsicherheit@werner-mertz.com  
Responsible/issuing person :  
Contact person : Product development / product safety

#### 1.4 Emergency telephone number

+49(0)551-19240

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Safety data sheet available on request.

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

##### Components

Chemical name	CAS-No.	Classification	Concentration
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	EC-No. Index-No. Registration number		(% w/w)
hydrogen peroxide	7722-84-1 231-765-0 008-003-00-9 01-2119485845-22	Ox. Liq. 1; H271 Acute Tox. 4; H332 Acute Tox. 4; H302 Skin Corr. 1A; H314 STOT SE 3; H335 Eye Dam. 1; H318 Aquatic Chronic 3; H412  specific concentration limit Ox. Liq. 1; H271 >= 70 % Ox. Liq. 2; H272 50 - < 70 % Skin Corr. 1A; H314 >= 70 % Skin Corr. 1B; H314 50 - < 70 % Skin Irrit. 2; H315 35 - < 50 % Eye Dam. 1; H318 >= 8 % Eye Irrit. 2; H319 5 - < 8 % STOT SE 3; H335 >= 35 % Aquatic Chronic 3; H412 >= 63 %  Acute toxicity estimate  Acute oral toxicity: 500 mg/kg Acute inhalation toxicity (dust/mist): 3,0 - 4,3 mg/l  Acute dermal toxicity: > 2.000 mg/kg	>= 3 - < 5

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice

: No hazards which require special first aid measures.

If inhaled

: Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion.  
If symptoms persist, call a physician.

In case of skin contact

: Take off contaminated clothing and shoes immediately.

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Wash off with soap and plenty of water.

In case of eye contact : Protect unharmed eye.  
If easy to do, remove contact lens, if worn.  
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

If swallowed : Clean mouth with water and drink afterwards plenty of water.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.

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

Symptoms : No information available.

Risks : No information available.

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

Treatment : For specialist advice physicians should contact the Poisons Information Service.

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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.

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : No hazardous combustion products are known

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

### 6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.

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### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Sweep up and shovel.  
Wipe up with absorbent material (e.g. cloth, fleece).  
Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For personal protection see section 8., Treat recovered material as described in the section "Disposal considerations"., Refer to section 15 for specific national regulation.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8.  
No special handling advice required.  
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire : Normal measures for preventive fire protection.  
and explosion

Hygiene measures : Wash hands before breaks and at the end of workday.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container.

Advice on common storage : No special restrictions on storage with other products.

Further information on storage stability : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

Specific use(s) : Cleaning agent

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
hydrogen peroxide, hydrogen peroxide (Equal to or > 52% by weight), hydrogen peroxide (Solution)	Workers	Inhalation	Acute local effects	3 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	1,4 mg/m <sup>3</sup>

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	Consumers	Inhalation	Acute local effects	1,93 mg/m3
	Consumers	Inhalation	Long-term local effects	0,21 mg/m3

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
hydrogen peroxide, hydrogen peroxide (Equal to or > 52% by weight), hydrogen peroxide (Solution)	Marine water	0,0126 mg/l
	Fresh water	0,0126 mg/l
	Soil	0,0023 mg/kg dry weight (d.w.)
	intermittent release	0,0138 mg/l
	STP	4,66 mg/l
	Fresh water sediment	0,047 mg/kg dry weight (d.w.)
	Marine sediment	0,047 mg/kg dry weight (d.w.)

## 8.2 Exposure controls

### Personal protective equipment

Eye/face protection : not required under normal use

Hand protection

Material : not required under normal use

Material : For prolonged or repeated contact use protective gloves.

It is suggested the usage of chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374.

As alternative, a different type of gloves might be used if, accordingly to the recommendations of the producer, guarantee the same level of protection.

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Remarks : 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).

Skin and body protection : not required under normal use

Respiratory protection : not required under normal use

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	: liquid
Colour	: colourless
Odour	: pleasant
Melting point/freezing point	: No data available
Boiling point/boiling range	: No information available.
Flammability (solid, gas)	: No data available
Flammability (liquids)	: No data available
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Flash point	: does not flash
Ignition temperature	: No data available
Decomposition temperature	: No data available
pH	: ca. 6,3, 100 % at 20 °C
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Water solubility	: No data available
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Vapour pressure	: No data available
Density	: ca. 1,0173 g/cm <sup>3</sup> at 20 °C
Relative density	: No data available

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Relative vapour density : No data available  
Particle characteristics : No data available

### 9.2 Other information

none

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable under recommended storage conditions.  
No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No hazards to be specially mentioned.

### 10.4 Conditions to avoid

Conditions to avoid : No data available

### 10.5 Incompatible materials

Materials to avoid : No data available

### 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

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## SECTION 11: Toxicological information

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

Our company is strongly against animal testing.  
Our company does not place any orders for animal testing for the finished product or the ingredients.  
However, as a result of EU legislation (REACH Regulation), the manufacturers of ingredients or EU importers are obliged to test ingredients with regard to their effects on human health and the environment before they are brought onto the market. Some of the tests made necessary by this took place decades ago.

#### Acute toxicity

##### Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

##### Components:

hydrogen peroxide

7722-84-1:

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Acute oral toxicity : LD50 (Rat): 1.193 - 1.270 mg/kg

LD50 (Rat): 418 - 445 mg/kg

Acute toxicity estimate: 500 mg/kg

Method: Converted acute toxicity point estimate

Acute inhalation toxicity : LC50 (Rat): 0,17 mg/l  
Exposure time: 4 h

LC50 (Rat): 2 mg/l

Exposure time: 4 h

Acute toxicity estimate: 3,0 - 4,3 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

Acute toxicity (other routes of administration) : (Mouse): 100 mg/kg

### Skin corrosion/irritation

#### Product:

Remarks : According to the classification criteria of the European Union, the product is not considered as being a skin irritant.

### Components:

#### hydrogen peroxide

#### 7722-84-1:

Species : Rabbit  
Result : Skin irritation

### Serious eye damage/eye irritation

#### Product:

Remarks : According to the classification criteria of the European Union, the product is not considered as being an eye irritant.

### Components:

#### hydrogen peroxide

#### 7722-84-1:

Species : Rabbit  
Result : Causes serious eye damage.

### Respiratory or skin sensitisation

#### Product:

Remarks : No data available

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### Components:

#### **hydrogen peroxide**

##### **7722-84-1:**

Result	: Did not cause sensitisation on laboratory animals.
Germ cell mutagenicity	: Not Rated
Carcinogenicity	: Not Rated
Reproductive toxicity	: Not Rated
STOT - single exposure	: The substance or mixture is not classified as specific target organ toxicant, single exposure.
STOT - repeated exposure	: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

#### **Repeated dose toxicity**

### Components:

#### **hydrogen peroxide**

##### **7722-84-1:**

Species	: Rat
NOAEL	: 2 mg/kg
Application Route	: inhalation (vapour)
Exposure time	: 28 d
Species	: Mouse, male and female
NOAEL	: 26 - 37 mg/kg
Application Route	: Oral
Exposure time	: 90 d
Aspiration toxicity	: Not Rated

## 11.2 Information on other hazards

### **Further information**

### Product:

Remarks	: No data available
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## SECTION 12: Ecological information

### 12.1 Toxicity

### Components:

#### **hydrogen peroxide, hydrogen peroxide (Equal to or > 52% by weight), hydrogen peroxide (Solution)**

##### **7722-84-1:**

Toxicity to fish	: LC50 (Pimephales promelas (fathead minnow)): 16,4 mg/l
	Exposure time: 96 h

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Test Type: semi-static test

LC50 (Leuciscus idus (Golden orfe)): 35 mg/l  
Exposure time: 24 h

LC50 (Oncorhynchus mykiss (rainbow trout)): 31 mg/l  
Exposure time: 24 h

Toxicity to daphnia and other aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 2,4 mg/l  
Exposure time: 48 h  
Test Type: semi-static test

EC50 (Daphnia magna (Water flea)): 7,7 mg/l  
Exposure time: 24 h

EC50 (Daphnia pulex (Water flea)): 2,4 mg/l  
Exposure time: 48 h  
Test Type: semi-static test

NOEC (Daphnia magna (Water flea)): 0,63 mg/l  
Exposure time: 21 h

Toxicity to algae/aquatic plants

: ErC50 (Skeletonema costatum (marine diatom)): 1,38 mg/l  
Exposure time: 72 h  
Test Type: Growth inhibition

(Chlorella vulgaris (Fresh water algae)): 4,3 mg/l  
Exposure time: 72 h  
Test Type: Growth inhibition

EC50 (Scenedesmus quadricauda (Green algae)): 27,5 - 43 mg/l  
Exposure time: 240 h

NOEC (Skeletonema costatum (marine diatom)): 0,63 mg/l  
Exposure time: 72 h  
Test Type: static test

IC50 (Chlorella vulgaris (Fresh water algae)): 2,5 mg/l  
Exposure time: 72 h

NOEC (Chlorella vulgaris (Fresh water algae)): 0,1 mg/l  
Exposure time: 72 h

Toxicity to microorganisms

: EC10 (Pseudomonas putida): 11 mg/l  
Exposure time: 16 h

EC50 (activated sludge): 466 mg/l  
Exposure time: 30 min  
Method: OECD Test Guideline 209

EC50 (activated sludge): > 1.000 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

: NOEC: 0,63 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)

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### 12.2 Persistence and degradability

#### Components:

**hydrogen peroxide, hydrogen peroxide (Equal to or > 52% by weight), hydrogen peroxide (Solution)**

**7722-84-1:**

Biodegradability

: Test Type: aerobic  
Inoculum: activated sludge  
Result: rapidly biodegradable  
Exposure time: < 2 min

Test Type: aerobic  
Inoculum: see user defined free text  
Result: rapidly biodegradable  
Exposure time: 0,3 - 5 d

Test Type: anaerobic  
Inoculum: see user defined free text  
Remarks: Not applicable

### 12.3 Bioaccumulative potential

#### Components:

**hydrogen peroxide, hydrogen peroxide (Equal to or > 52% by weight), hydrogen peroxide (Solution)**

**7722-84-1:**

Bioaccumulation

: Remarks: Does not bioaccumulate.

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment

: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Endocrine disrupting properties

No data available

### 12.7 Other adverse effects

#### Product:

Additional ecological information : There is no data available for this product.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : In accordance with local and national regulations.

Contaminated packaging : Empty remaining contents.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.

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Waste Code

European Waste Catalogue

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According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

### SECTION 14: Transport information

#### 14.1 UN number or ID number

**ADR**

Not dangerous goods

**RID**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

#### 14.2 UN proper shipping name

Not regulated as a dangerous good

#### 14.3 Transport hazard class(es)

**ADR**

Not dangerous goods

**RID**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

#### 14.4 Packing group

**ADR**

Not dangerous goods

**RID**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

#### 14.5 Environmental hazards

**ADR**

Not dangerous goods

**RID**

Not dangerous goods

**IMDG**

Not regulated as a dangerous good

**IATA**

Not dangerous goods

#### 14.6 Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regulations.

For personal protection see section 8.

#### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

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### SECTION 15: Regulatory information

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

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. : Not applicable

TA Luft List (Germany) : Total dust: Not applicable  
: Inorganic substances in powdered form: Not applicable  
: Inorganic substances in vapour or gaseous form: Not applicable  
: Organic Substances: portionClass 1: < 0,01 %  
: Carcinogenic substances: Not applicable  
: Mutagenic: Not applicable  
: Toxic to reproduction: Not applicable

Volatile organic compounds (VOC) content : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Update: Percent volatile: 5,02 %  
1.437,09 g/l  
VOC content excluding water

Volatile organic compounds (VOC) content : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Update: Percent volatile: 5,02 %  
51,07 g/l  
VOC content valid only for coating materials used on wood surfaces

according to Detergents Regulation EC 648/2004 : <5% phosphonates, oxygen-based bleaching agents, perfumes

Other regulations : This product is regulated by Regulation (EU) 2019/1148: all suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

#### 15.2 Chemical safety assessment

### SECTION 16: Other information

#### Full text of H-Statements

H271 : May cause fire or explosion; strong oxidizer.  
H302 : Harmful if swallowed.  
H314 : Causes severe skin burns and eye damage.

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H318	: Causes serious eye damage.
H332	: Harmful if inhaled.
H335	: May cause respiratory irritation.
H412	: Harmful to aquatic life with long lasting effects.

### Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Eye Dam.	: Serious eye damage
Ox. Liq.	: Oxidizing liquids
Skin Corr.	: Skin corrosion
STOT SE	: Specific target organ toxicity - single exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECL - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

Classification of the mixture:

Classification procedure:

Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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