

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 28 Apr 2021

Print date: 22 Oct 2021

Version: 9

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

1.1. Product identifier

Trade name/designation:

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

Use of the substance/mixture:

Water treatment chemicals, Dispersing agent, Hardening Protection

Relevant identified uses:

Life cycle stage [LCS]

IS: Use at industrial sites

PW: Widespread use by professional workers

Product Categories [PC]

PC 20: Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents

PC 37: Water treatment chemicals

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Sanosil

Eichtalstrasse 49

8634 Hombrechtikon Switzerland

Telephone: +41 55 254 00 54

E-mail: service@sanosil.com

Website: www.sanosil.com

1.4. Emergency telephone number

Switzerland: 145 for calls from Switzerland or
+41 (0)44 251 51 51 Swiss toxicological Information Center

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]:

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

According to EC directives or the corresponding national regulations the product does not have to be labelled.

Hazard statements: -

Supplemental hazard information: -

Precautionary statements: -

2.3. Other hazards

Adverse human health effects and symptoms:

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

Adverse environmental effects:

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

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SECTION 3: Composition / information on ingredients

3.2. Mixtures

Description:

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended.

Following inhalation:

Provide fresh air.

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap.

After eye contact:

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing. Protect uninjured eye.

Following ingestion:

Rinse mouth. Let 1 glass of water be drunken in little sips (dilution effect). Do NOT induce vomiting. Get medical advice/attention if you feel unwell.

Self-protection of the first aider:

First aider: Pay attention to self-protection!

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

No known symptoms to date.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Co-ordinate fire-fighting measures to the fire surroundings.

Water spray jet
alcohol resistant foam
Carbon dioxide (CO₂)
Extinguishing powder

Unsuitable extinguishing media:

Full water jet

5.2. Special hazards arising from the substance or mixture

The product itself does not burn.

Hazardous combustion products:

In case of fire: Gases/vapours, toxic

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Remove persons to safety.

Protective equipment:

Wear protective gloves/protective clothing/eye protection/face protection.

6.1.2. For emergency responders

Personal protection equipment:

Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For containment:

Cover drains.

Prevent spread over a wide area (e.g. by containment or oil barriers).

For cleaning up:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Take up mechanically, placing in appropriate containers for disposal.

Other information:

Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

6.5. Additional information

Use appropriate container to avoid environmental contamination.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Wear personal protection equipment (refer to section 8).

Advices on general occupational hygiene

When using do not eat, drink or smoke. Avoid contact with eyes and skin.

* **7.2. Conditions for safe storage, including any incompatibilities**

Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place.

Packaging materials:

Keep/Store only in original container.

Suitable container/equipment material:

PE (polyethylene)

Requirements for storage rooms and vessels:

Protect against: Frost

Storage class (TRGS 510, Germany): 12 - non-combustible liquids that cannot be assigned to any of the above storage classes

Further information on storage conditions:

Recommended storage temperature: 15°C - 25°C

7.3. Specific end use(s)

No data available

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
DFG (DE)	Poly(oxy-1,2-ethanediyl),?-hydro-?-hydroxy- Ethane-1,2-diol, ethoxylated CAS No.: 25322-68-3 EC No.: 500-038-2	① 250 mg/m ³ ② 500 mg/m ³ ⑤ (einatembare Fraktion)
TRGS 900 (DE)	Poly(oxy-1,2-ethanediyl),?-hydro-?-hydroxy- Ethane-1,2-diol, ethoxylated CAS No.: 25322-68-3 EC No.: 500-038-2	① 200 mg/m ³ ② 400 mg/m ³ ⑤ (einatembare Fraktion, Gewichtsgemittelte Molmasse (Mw) 200-600)

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

No data available

* 8.2. Exposure controls

8.2.1. Appropriate engineering controls

No data available

8.2.2. Personal protection equipment

Eye/face protection:

Eye protection: not required.

Recommendation:

goggles EN 166

Skin protection:

Hand protection is not required.

Recommendation:

Wearing time with permanent contact

Permeation time (maximum wear duration): >= 480 min

Suitable material: - Thickness of the glove material

CR (polychloroprene, chloroprene rubber) - 0,5 mm

NBR (Nitrile rubber) - 0,35 mm

Butyl caoutchouc (butyl rubber) - 0,5 mm

FKM (fluoro rubber) - 0,4 mm

PVC (polyvinyl chloride) - 0,5 mm

NR (natural rubber, natural latex) - 0,5 mm

Unsuitable material:

Cotton

Leather

In the case of wanting to use the gloves again, clean them before taking off and air them well.

Body protection: Protective clothing. / Apron

Breakthrough times and swelling properties of the material must be taken into consideration.

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Respiratory protection:

Usually no personal respirative protection necessary.

Other protection measures:

Take off contaminated clothing and wash it before reuse.

8.2.3. Environmental exposure controls

No data available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Colour: clear

Odour: not determined

Safety relevant basis data

parameter		at °C	Method	Remark
pH	≈ 5			
Melting point	> 0 °C			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	<i>not determined</i>			
Decomposition temperature	<i>not determined</i>			
Flash point	<i>not applicable</i>			
Evaporation rate	<i>not determined</i>			
Auto-ignition temperature	<i>not applicable</i>			
Upper/lower flammability or explosive limits	<i>not applicable</i>			
Vapour pressure	<i>not determined</i>			
Vapour density	<i>not determined</i>			
Density	≈ 1.03 g/cm ³	20 °C		
Relative density	<i>not determined</i>			
Bulk density	<i>not applicable</i>			
Water solubility	completely miscible			
Partition coefficient: n-octanol/water	<i>not determined</i>			
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity	<i>not determined</i>	40 °C		
VOC-value	<i>not applicable</i>			

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product itself does not burn. not relevant

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

Reaction with:

Oxidizing agent

Acid chlorides, inorganic

10.4. Conditions to avoid

No data available

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10.5. Incompatible materials

Materials to avoid: Strong alkali

10.6. Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapours.

SECTION 11: Toxicological information

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

Substance name	Toxicological information
Poly(oxy-1,2-ethanediyl),?-hydro-?-hydroxy- Ethane-1,2-diol, ethoxylated CAS No.: 25322-68-3 EC No.: 500-038-2	LD₅₀ oral: >10,000 mg/kg (Rabbit) LD₅₀ dermal: >20,000 mg/kg (Rabbit)
propane-1,2-diol CAS No.: 57-55-6 EC No.: 200-338-0	LD₅₀ oral: 22,000 mg/kg (Rat) LD₅₀ dermal: >2,000 mg/kg (Rat) LC₅₀ Acute inhalation toxicity (vapour): >317,042 mg/l 2 h (Rabbit)

Acute oral toxicity:

Based on available data, the classification criteria are not met.

Acute dermal toxicity:

Based on available data, the classification criteria are not met.

Acute inhalation toxicity:

Based on available data, the classification criteria are not met.

Skin corrosion/irritation:

Based on available data, the classification criteria are not met.

Serious eye damage/irritation:

Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation:

Based on available data, the classification criteria are not met.

Germ cell mutagenicity:

Based on available data, the classification criteria are not met.

Carcinogenicity:

Based on available data, the classification criteria are not met.

Reproductive toxicity:

Based on available data, the classification criteria are not met.

STOT-single exposure:

Based on available data, the classification criteria are not met.

STOT-repeated exposure:

Based on available data, the classification criteria are not met.

Aspiration hazard:

Based on available data, the classification criteria are not met.

Additional information:

No data available

* 11.2. Information on other hazards

Endocrine disrupting properties:

Based on available data, the classification criteria are not met.

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SECTION 12: Ecological information

* 12.1. Toxicity

Substance name	Toxicological information
Poly(oxy-1,2-ethanediyl),?-hydro-?-hydroxy- Ethane-1,2-diol, ethoxylated CAS No.: 25322-68-3 EC No.: 500-038-2	LC₅₀ : >500 mg/l 4 d (fish, <i>Leuciscus idus</i> (golden orfe)) LC₅₀ : >100 mg/l 4 d (fish, <i>Poecilia reticulata</i> (Guppy)) OECD 203 EC₅₀ : >100 mg/l 2 d (crustaceans, <i>Daphnia magna</i> (Big water flea)) OECD 202 EC₅₀ : >100 mg/l 4 d (Algae/water plant, <i>Scenedesmus quadricauda</i>) OECD 201
propane-1,2-diol CAS No.: 57-55-6 EC No.: 200-338-0	LC₅₀ : >10,000 mg/l 4 d (fish, <i>Scophthalmidae</i> (Steinbutt)) OECD 203 EC₅₀ : 43,500 mg/l 2 d (crustaceans, <i>Daphnia magna</i> (Big water flea)) OECD 202 EC₅₀ : 19,300 mg/l 3 d (Algae/water plant, <i>Skeletonema costatum</i>) OECD 201

* 12.2. Persistence and degradability

Substance name	Biodegradation	Remark
Poly(oxy-1,2-ethanediyl),?-hydro-?-hydroxy- Ethane-1,2-diol, ethoxylated CAS No.: 25322-68-3 EC No.: 500-038-2	Yes, rapidly	
propane-1,2-diol CAS No.: 57-55-6 EC No.: 200-338-0	Yes, rapidly	

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

* 12.5. Results of PBT and vPvB assessment

Substance name	Results of PBT and vPvB assessment
Poly(oxy-1,2-ethanediyl),?-hydro-?-hydroxy- Ethane-1,2-diol, ethoxylated CAS No.: 25322-68-3 EC No.: 500-038-2	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
propane-1,2-diol CAS No.: 57-55-6 EC No.: 200-338-0	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6. Endocrine disrupting properties

No data available

12.7. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product:

16 05 09	discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08
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Waste code packaging:

15 01 10 * packaging containing residues of or contaminated by dangerous substances

*: Evidence for disposal must be provided.

Waste treatment options

Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package:

Contaminated packages must be completely emptied and can be re-used following proper cleaning.

SECTION 14: Transport information

No dangerous good in sense of these transport regulations.

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es)			
not relevant			
14.4. Packing group			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.5. Environmental hazards			
not relevant			
14.6. Special precautions for user			
not relevant			

14.7. Maritime transport in bulk according to IMO instruments

not relevant

SECTION 15: Regulatory information

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

15.1.1. EU legislation

No data available

15.1.2. National regulations

 [DE] National regulations

Restrictions of occupation

22 JArbSchG.

Annex Chemikalien-Verbotsverordnung (ChemVerbotsV)

Do not sell or give to persons under the age of 18 years.

The product is intended for professional use.

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Störfallverordnung

Remark:

This product is not classified according to StörfallVO.

Water hazard class

WGK:

1 - schwach wassergefährdend

Source:

Mischungsregel gemäß VwVwS Anhang 4, Nr. 3

* **15.2. Chemical Safety Assessment**

For the following substances of this mixture a chemical safety assessment has been carried out:

Poly(oxy-1,2-ethanediyl),?-hydro-?-hydroxy- Ethane-1,2-diol, ethoxylated propane-1,2-diol

SECTION 16: Other information

* **16.1. Indication of changes**

2.3.	Other hazards
7.2.	Conditions for safe storage, including any incompatibilities
8.2.	Exposure controls
11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008
11.2.	Information on other hazards
12.1.	Toxicity
12.2.	Persistence and degradability
12.5.	Results of PBT and vPvB assessment
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture
15.2.	Chemical Safety Assessment
16.1.	Indication of changes
16.3.	Key literature references and sources for data

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16.2. Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route

ADN: Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

AVV: Abfallverzeichnis-Verordnung

CSB: Chemical oxygen demand (COD)

BSB: Biochemical oxygen demand

CAS: Chemical Abstracts Service (division of the American Chemical Society)

CLP: Classification, Labelling and Packaging

DE: Deutschland/Germany

DIN: Deutsche Institut für Normung e. V.

DIN EN: Deutsche Institut für Normung e. V. Europäische Norm

DNEL: derived no-effect level

EAK: Europäische Abfallartenkatalog

EU: Europe

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

IATA: International Air Transport Association

IBC: Intermediate Bulk Container

ICAO: International Civil Aviation Organisation

IMDG: International Maritime Code for Dangerous Goods

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

MAK: Maximale Arbeitsplatz-Konzentration

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

min: Minute

mm: Millimeter

PBT: Persistent, Bioaccumulative and Toxic

PENC: Predicted no effect concentration

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

VOC: Volatile Organic Compounds (USA, EU)

vPvB: very Persistent and very Bioaccumulative (European Agreement concerning the International Carriage of Dangerous Goods by Road)

WGK: Wassergefährdungsklasse

* 16.3. Key literature references and sources for data

[Section 4: First-Aid Measures Section 8: Exposure Controls/Personal Protection

Section 10: Stability and Reactivity Section 15: Regulatory Information (non-mandatory)] Source: GESTIS <https://gestis.dguv.de/> Issue date: 28.04.2021

[Section 11: Toxicological Information Section 12: Ecological Information (non-mandatory)] Source: ECHA <https://echa.europa.eu/de/> Issue date: 28.04.2021

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Classification according to Regulation (EC) No 1272/2008 [CLP]:

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

16.5. Relevant R-, H- and EUH-phrases (Number and full text)

No data available

16.6. Training advice

No data available

16.7. Additional information

No data available

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* Data changed compared with the previous version