

Safety Data Sheet dated 2/9/2022, version 5.0 This version cancels and substitutes any previous version

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

1.1. Product identifier

Mixture identification: Trade name:

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1.2. Relevant identified uses of the substance or mixture and uses advised against Recommended use:
Leak Stop for Air Conditioning and Refrigeration Systems up to 5mm
1.3. Details of the supplier of the safety data sheet Company: ERRECOM SPA

Via Industriale, 14 Corzano (BS) Italy Tel. +39 030/9719096 Competent person responsible for the safety data sheet: lab@errecom.it 1.4. Emergency telephone number

+39 02-6610-1029 Poison Control Center Niguarda Ca' Granda - Milano - ITALY

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture EC regulation criteria 1272/2008 (CLP)



Warning, Skin Irrit. 2, Causes skin irritation.



Warning, Skin Sens. 1, May cause an allergic skin reaction.

Aquatic Chronic 3, Harmful to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards 2.2. Label elements Hazard pictograms:



Warning Hazard statements: H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H412 Harmful to aquatic life with long lasting effects. Precautionary statements: P102 Keep out of reach of children. P280 Wear protective gloves.

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P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

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

P501 Dispose of contents/container in accordance with applicable regulations. Special Provisions:

EUH205 Contains epoxy constituents. May produce an allergic reaction.

Contains

3-[3-(3-hydroxypropoxy)-2,2-bis[(3-hydroxypropoxy)methyl]propoxy]propan-1-ol reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)

Special provisions according to Annex XVII of REACH and subsequent amendments: None

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%Other Hazards:

No other hazards

SECTION 3: Composition/information on ingredients

- 3.1. Substances
- N.A.
- 3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

| Qty | Name | Ident. Numb | er | Classification |
|-------------------------------|--|---|--|---|
| >= 30% - < 40% | talc | CAS: EC: REACH No.: | 14807-96-6 238-877-9 01-21201402 78-58-XXXX | Substance with a Union workplace exposure limit. |
| >= 20% - < 25% | reaction product: bisphenol-A-(epichlorh ydrin); epoxy resin (number average molecular weight <= 700) | Index number: CAS: EC: REACH No.: | 603-074-00-8 25068-38-6 500-033-5 01-21194566 19-26-XXXX | 3.3/2 Eye Irrit. 2 H319 3.2/2 Skin Irrit. 2 H315 3.4.2/1 Skin Sens. 1 H317 4.1/C2 Aquatic Chronic 2 H411 Specific Concentration Limits: C >= 5%: Eye Irrit. 2 H319 C >= 5%: Skin Irrit. 2 H315 |
| >= 15% - < 20% | 3-[3-(3-hydroxypropoxy)-2,2-bis[(3-hydroxypro poxy)methyl]propoxy]p ropan-1-ol | CAS: EC: REACH No.: | 72244-98-5 615-735-8 01-21201189 57-46-XXXX | 3.4.2/1B Skin Sens. 1B H317 4.1/C3 Aquatic Chronic 3 H412 |
| >= 2.5% - < 5% | 2,4,6-tris(dimethylamin omethyl)phenol | Index number: CAS: EC: REACH No.: | 603-069-00-0 90-72-2 202-013-9 01-21195605 97-27-XXXX | 3.1/4/Oral Acute Tox. 4 H302 3.2/2 Skin Irrit. 2 H315 3.3/2 Eye Irrit. 2 H319 |
| >= 0.0001% - < 0.01% | titanium dioxide; [in powder form containing 1 % or more of particles with | Index number: CAS: EC: | 022-006-00-2 13463-67-7 236-675-5 | Substance with a Union workplace exposure limit. |



| aerodynamic diameter | REACH No.: 01-21194893 | |
|----------------------|------------------------|--|
| <= 10 μm] | 79-17-XXXX | |

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

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

Wash contaminated clothing before using them.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

- 4.2. Most important symptoms and effects, both acute and delayed
 - Contact with skin / eyes:
 - Skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Treatment:

Treat symptomatically.

SECTION 5: Firefighting measures

- 5.1. Extinguishing media
 - Suitable extinguishing media:
 - Water spray or water mist.
 - Foam fire extinguisher.
 - CO2 or Dry chemical fire extinguisher.

Extinguishing media which must not be used for safety reasons:

- High pressure water jet.
- 5.2. Special hazards arising from the substance or mixture Do not inhale explosion and combustion gases. Burning produces heavy smoke.
- 5.3. Advice for firefighters
 - Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures For non emergency personnel: Wear personal protection equipment. Remove persons to safety. See protective measures under point 7 and 8.

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For emergency responders:

Wear personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

- Wash with plenty of water. 6.4. Reference to other sections
 - See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes. Advice on general occupational hygiene: Do not eat or drink while working. Contamined clothing should be changed before entering eating areas. Wash hands after use

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed. To maintain product quality, do not store in heat or direct sunlight. Keep in a dry, cool and well-ventilated place. Keep away from food, drink and feed. Incompatible materials: Keep away from oxidants.

Instructions as regards storage premises:

Cool and adequately ventilated.

7.3. Specific end use(s) Information not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters talc - CAS: 14807-96-6 EU - TWA(8h): 2 mg/m3 - Notes: ACGIH ACGIH - TWA(8h): 2 mg/m3 - Notes: Containing no asbestos fibers. (E,R), A4 - Pulm fibrosis, pulm func titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 µm] - CAS: 13463-67-7 EU - TWA(8h): 10 mg/m3 - Notes: ACGIH ACGIH - TWA(8h): 10 mg/m3 - Notes: A4 - LRT irr DNEL Exposure Limit Values 3-[3-(3-hydroxypropoxy)-2,2-bis[(3-hydroxypropoxy)methyl]propoxy]propan-1-ol - CAS: 72244-98-5 Worker Industry: 2.7 mg/kg - Consumer: 1.61 mg/kg - Exposure: Human Dermal -Frequency: Long Term, systemic effects Worker Industry: 22 mg/m³ - Consumer: 6.52 mg/m³ - Exposure: Human Inhalation -Frequency: Long Term, systemic effects **PNEC Exposure Limit Values** 3-[3-(3-hydroxypropoxy)-2,2-bis[(3-hydroxypropoxy)methyl]propoxy]propan-1-ol - CAS: 72244-98-5 Target: Marine water sediments - Value: 0.032 mg/kg Target: Freshwater sediments - Value: 0.322 mg/kg Target: Microorganisms in sewage treatments - Value: 10 mg/L - Notes:: AF=100

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Target: Marine water - Value: 0.007 mg/L - Notes:: AF=500 Target: Fresh Water - Value: 0.07 mg/L - Notes:: AF=50 Target: Soil (agricultural) - Value: 0.023 mg/kg 2,4,6-tris(dimethylaminomethyl)phenol - CAS: 90-72-2 Target: Marine water - Value: 0.008 mg/L - Notes:: AF=10000 Target: Microorganisms in sewage treatments - Value: 0.2 mg/L - Notes:: AF=10 Target: Fresh Water - Value: 0.084 mg/L - Notes:: AF=1000 8.2. Exposure controls Eye protection: Protective airtight goggles (ref. Standard EN 166). Protection for skin: Not needed for normal use. Protection for hands: Suitable gloves type: One-time gloves. Suitable material: Butyl caoutchouc (butyl rubber). NBR (nitrile rubber). Material thickness: 0.4 mm minimum. Break through time : > 480 min 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). Respiratory protection: Not needed for normal use. Thermal Hazards: None Environmental exposure controls: None Appropriate engineering controls:

None

SECTION 9: Physical and chemical properties

| 9.1. Information on basic ph | ysical and chem | nical properties | |
|---|-----------------|------------------|--------|
| Properties | Value | Method: | Notes: |
| Physical state: | Solid | | |
| Colour: | Light grey | | |
| Odour: | characteristic | | |
| Melting point/freezing point: | N.A. | | |
| Boiling point or initial boiling point and boiling range: | N.A. | | |
| Flammability: | N.A. | | |
| Lower and upper explosion limit: | N.A. | | |
| Flash point: | >100 ° C | | |
| Auto-ignition temperature: | N.A. | | |
| Decomposition temperature: | N.A. | | |
| pH: | N.A. | | |
| Kinematic viscosity: | N.A. | | |
| Solubility in water: | N.A. | | |
| Solubility in oil: | N.A. | | |



| Partition coefficient n-octanol/water (log value): | N.A. | | |
|---|---|---------------|--|
| Vapour pressure: | N.A. | | |
| Density and/or relative density: | 1.9 - 2.09 g/mL (+20°C/+68°F) | | |
| Relative vapour density: | N.A. | | |
| | Particle cha | racteristics: | |
| Particle size: | N.A. | | |

9.2. Other information

No other relevant information

SECTION 10: Stability and reactivity

- 10.1. Reactivity
 - Stable under normal conditions
- 10.2. Chemical stability
 - Stable under normal conditions
- 10.3. Possibility of hazardous reactions None
- 10.4. Conditions to avoid Avoid extreme heat and high-energy ignition sources.
 10.5. Incompatible metaziale
- 10.5. Incompatible materials Strong oxidizing agents.
- 10.6. Hazardous decomposition products No data available.

SECTION 11: Toxicological information

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

- Toxicological information of the product:
 - a) acute toxicity
 - Not classified
 - Based on available data, the classification criteria are not met
 - b) skin corrosion/irritation
 - The product is classified: Skin Irrit. 2 H315
 - c) serious eye damage/irritation
 - The product is classified: Eye Irrit. 2 H319
 - d) respiratory or skin sensitisation
 - The product is classified: Skin Sens. 1 H317
 - e) germ cell mutagenicity
 - Not classified
 - Based on available data, the classification criteria are not met f) carcinogenicity
 - Not classified
 - Based on available data, the classification criteria are not met g) reproductive toxicity
 - Not classified
 - Based on available data, the classification criteria are not met
 - h) STOT-single exposure
 - Not classified
 - Based on available data, the classification criteria are not met i) STOT-repeated exposure

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Not classified Based on available data, the classification criteria are not met i) aspiration hazard Not classified Based on available data, the classification criteria are not met Toxicological information of the main substances found in the product: talc - CAS: 14807-96-6 a) acute toxicity: Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg Test: LC50 - Route: Inhalation - Species: Rat > 2100 mg/m3 - Duration: 4h 3-[3-(3-hydroxypropoxy)-2,2-bis[(3-hydroxypropoxy)methyl]propoxy]propan-1-ol - CAS: 72244-98-5 a) acute toxicity: Test: LD50 - Route: Skin - Species: Rabbit > 10200 mg/kg Test: LD50 - Route: Oral - Species: Rat 2600 mg/kg Test: LC50 - Route: Inhalation - Species: Rat > 0.1 mg/L titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 µm] - CAS: 13463-67-7 a) acute toxicity: Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg Test: LD50 - Route: Inhalation - Species: Rat > 6.82 mg/L - Duration: 4h b) skin corrosion/irritation: Test: Skin Irritant - Route: Skin Negative d) respiratory or skin sensitisation: Test: Skin Sensitization - Route: Skin Negative Test: Respiratory Sensitization - Route: Inhalation Negative 2,4,6-tris(dimethylaminomethyl)phenol - CAS: 90-72-2 LD50 (RAT) ORAL: 1200 MG/KG LD50 (RAT) SKIN: 1280 MG/KG

11.2. Information on other hazards
 Endocrine disrupting properties:
 No endocrine disruptor substances present in concentration >= 0.1%

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment. The product is classified: Aquatic Chronic 3 - H412

3-[3-(3-hydroxypropoxy)-2,2-bis[(3-hydroxypropoxy)methyl]propoxy]propan-1-ol

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 87 mg/L - Duration h: 96 - Notes: Species: Danio rerio Endpoint: EC50 - Species: Daphnia 12 mg/L - Duration h: 48 - Notes: Species: Daphnia magna

Endpoint: ErC50 - Species: Algae > 733 mg/L - Duration h: 72 - Notes: Species: Desmodesmus subspicatus

b) Aquatic chronic toxicity:

Endpoint: EC50 - Species: Daphnia 3.5 mg/L - Duration h: 504 - Notes: Species: Daphnia magna

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \ \mu$ m]

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 10000 mg/L - Duration h: 96

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Endpoint: LC50 - Species: Daphnia > 10000 mg/L - Duration h: 48
12.2. Persistence and degradability N.A.
12.3. Bioaccumulative potential titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 µm] - CAS: 13463-67-7 Bioaccumulation: Not bioaccumulative
12.4. Mobility in soil N.A.
12.5. Results of PBT and vPvB assessment vPvB Substances: None - PBT Substances: None
12.6. Endocrine disrupting properties No endocrine disruptor substances present in concentration >= 0.1%
12.7. Other adverse effects

None

SECTION 13: Disposal considerations

13.1. Waste treatment methods Recover if possible. In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information

14.1. UN number or ID number

Not classified as dangerous in the meaning of transport regulations.

- 14.2. UN proper shipping name N.A.
- 14.3. Transport hazard class(es) N.A.
- 14.4. Packing group N.A.
- 14.5. Environmental hazards ADR-Enviromental Pollutant: No IMDG-Marine pollutant: No
- 14.6. Special precautions for user N.A.
- 14.7. Maritime transport in bulk according to IMO instruments N.A.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture Dir. 98/24/EC (Risks related to chemical agents at work) Dir. 2000/39/EC (Occupational exposure limit values) Regulation (EC) n. 1907/2006 (REACH) Regulation (EC) n. 1272/2008 (CLP) Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013 Regulation (EU) n. 2020/878 Regulation (EU) n. 2020/878 Regulation (EU) n. 286/2011 (ATP 2 CLP) Regulation (EU) n. 618/2012 (ATP 3 CLP) Regulation (EU) n. 487/2013 (ATP 4 CLP) Regulation (EU) n. 944/2013 (ATP 5 CLP) Regulation (EU) n. 605/2014 (ATP 6 CLP)

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Regulation (EU) n. 2015/1221 (ATP 7 CLP) Regulation (EU) n. 2016/918 (ATP 8 CLP) Regulation (EU) n. 2016/1179 (ATP 9 CLP) Regulation (EU) n. 2017/776 (ATP 10 CLP) Regulation (EU) n. 2018/669 (ATP 11 CLP) Regulation (EU) n. 2018/1480 (ATP 13 CLP) Regulation (EU) n. 2019/521 (ATP 12 CLP) Regulation (EU) n. 2020/217 (ATP 14 CLP) Regulation (EU) n. 2020/1182 (ATP 15 CLP) Regulation (EU) n. 2021/643 (ATP 16 CLP) Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications: Restrictions related to the product: No restriction. Restrictions related to the substances contained: **Restriction 75** Where applicable, refer to the following regulatory provisions : Directive 2012/18/EU (Seveso III) Regulation (EC) nr 648/2004 (detergents). Dir. 2004/42/EC (VOC directive) Provisions related to directive EU 2012/18 (Seveso III): Seveso III category according to Annex 1, part 1 None

15.2. Chemical safety assessment No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

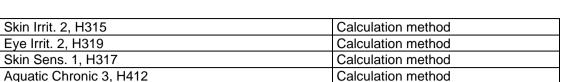
Full text of phrases referred to in Section 3:

- H319 Causes serious eye irritation.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.
- H302 Harmful if swallowed.

| Hazard class and hazard category | Code | Description |
|-------------------------------------|------------|--|
| Acute Tox. 4 | 3.1/4/Oral | Acute toxicity (oral), Category 4 |
| Skin Irrit. 2 | 3.2/2 | Skin irritation, Category 2 |
| Eye Irrit. 2 | 3.3/2 | Eye irritation, Category 2 |
| Skin Sens. 1 | 3.4.2/1 | Skin Sensitisation, Category 1 |
| Skin Sens. 1B | 3.4.2/1B | Skin Sensitisation, Category 1B |
| Aquatic Chronic 2 | 4.1/C2 | Chronic (long term) aquatic hazard, category 2 |
| Aquatic Chronic 3 | 4.1/C3 | Chronic (long term) aquatic hazard, category 3 |

This safety data sheet has been completely updated in compliance to Regulation 2020/878. Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

| Classification according to Regulation (EC) Nr. | Classification procedure |
|---|--------------------------|
| 1272/2008 | |



This document was prepared by a competent person who has received appropriate training. Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

| ADR: | European Agreement concerning the International Carriage of Dangerous Goods by Road. |
|-------------|---|
| ATE: | Acute Toxicity Estimate |
| ATEmix: | Acute toxicity Estimate (Mixtures) |
| CAS: | Chemical Abstracts Service (division of the American Chemical |
| 0,10. | Society). |
| CLP: | Classification, Labeling, Packaging. |
| DNEL: | Derived No Effect Level. |
| EINECS: | European Inventory of Existing Commercial Chemical Substances. |
| GefStoffVO: | Ordinance on Hazardous Substances, Germany. |
| GHS: | Globally Harmonized System of Classification and Labeling of |
| | Chemicals. |
| IATA: | International Air Transport Association. |
| IATA-DGR: | Dangerous Goods Regulation by the "International Air Transport |
| | Association" (IATA). |
| ICAO: | International Civil Aviation Organization. |
| ICAO-TI: | Technical Instructions by the "International Civil Aviation Organization" |
| | (ICAO). |
| IMDG: | International Maritime Code for Dangerous Goods. |
| INCI: | International Nomenclature of Cosmetic Ingredients. |
| KSt: | Explosion coefficient. |
| LC50: | Lethal concentration, for 50 percent of test population. |
| LD50: | Lethal dose, for 50 percent of test population. |
| PNEC: | Predicted No Effect Concentration. |
| RID: | Regulation Concerning the International Transport of Dangerous Goods by Rail. |
| STEL: | Short Term Exposure limit. |
| STOT: | Specific Target Organ Toxicity. |
| TLV: | Threshold Limiting Value. |
| TWA: | Time-weighted average |
| WGK: | German Water Hazard Class. |
| | |