

Safety Data Sheet

UNCLOG



Safety Data Sheet dated 23/11/2022, version 4.0

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: UNCLOG

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

Recommended use:

Professional Unblocker for Clogged Drains

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)



Danger, Skin Corr. 1A, Causes severe skin burns and eye damage.



Danger, Eye Dam. 1, Causes serious eye damage.

EUH014 Reacts violently with water.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:



Danger

Hazard statements:

H314 Causes severe skin burns and eye damage.

Precautionary statements:

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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

Rinse skin with water or shower.

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

P310 Immediately call a POISON CENTER.

Special Provisions:

EUH014 Reacts violently with water.

Contains

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sulphuric acid
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 $\geq 0.1\%$
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. Number	Classification
$\geq 90\%$	sulphuric acid	Index 016-020-00-8 number: CAS: 7664-93-9 EC: 231-639-5 REACH No.: 01-21194588 38-20-XXXX	 3.2/1A Skin Corr. 1A H314 Specific Concentration Limits: C $\geq 15\%$: Skin Corr. 1A H314 5% \leq C < 15%: Skin Irrit. 2 H315 5% \leq C < 15%: Eye Irrit. 2 H319

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

In case of contact with the skin, wash immediately and abundantly with suitable products.

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 ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do NOT induce vomiting.

Give water with egg white; do not give bicarbonate. Seek immediate medical attention.

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

For symptoms and effects caused by substances, see section 11.

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:

No information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

CO₂ or Dry chemical fire extinguisher.

Extinguishing media which must not be used for safety reasons:

Water.

- 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.
 - 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
 - Keep away from water or from damp surroundings.
- 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, inhalation of vapours and mists.
 - Don't use empty container before they have been cleaned.
 - Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
 - Advice on general occupational hygiene:
 - Contaminated clothing should be changed before entering eating areas.
 - Do not eat or drink while working.
 - See also section 8 for recommended protective equipment.
- 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.
 - Store between + 10 ° C / + 50 ° F and + 25 ° C / + 77 ° F.
 - Protect against moisture. Keep this product in a dry place.
 - Keep away from food, drink and feed.
 - Incompatible materials:
 - See subsection 10.5
 - Instructions as regards storage premises:
 - Adequately ventilated premises.
- 7.3. Specific end use(s)
 - Information not available.

SECTION 8: Exposure controls/personal protection

- 8.1. Control parameters
 - sulphuric acid - CAS: 7664-93-9

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MAK - TWA: 0.1 mg/m³ - Notes: Peak limitation category: I (1) Carcinogenicity class: 4; Pregnancy risk group: C; (DFG 2004)
TLV - TWA: 1 mg/m³ - STEL: 3 mg/m³ - Notes: (suspected carcinogen for humans)(ACGIH 2004)
EU - TWA(8h): 0.05 mg/m³ - Notes: thoracic fraction
ACGIH - TWA(8h): 0.2 mg/m³ - Notes: (T), A2(M) - Pulm func

DNEL Exposure Limit Values

sulphuric acid - CAS: 7664-93-9

Worker Industry: 0.1 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Industry: 0.05 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects

PNEC Exposure Limit Values

sulphuric acid - CAS: 7664-93-9

Target: Fresh Water - Value: 0.0025 mg/L

Target: Freshwater sediments - Value: 0.002 mg/L

Target: Marine water sediments - Value: 0.002 mg/L

Target: Microorganisms in sewage treatments - Value: 8.8 mg/L

Target: Marine water - Value: 0.00025 mg/L

8.2. Exposure controls

Eye protection:

Eye glasses with side protection.

Protection for skin:

Safety shoes.

Boots.

Chemical protection clothing.

Protection for hands:

work gloves resistant to penetration (ref. standard EN 374).

Suitable material:

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:

Do NOT let this chemical enter the environment

Appropriate engineering controls:

None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes:
Physical state:	Liquid	--	--
Colour:	Light blue	--	--
Odour:	pungent	--	--
Melting point/freezing point:	-1.11 °C / 3 °C	--	--
Boiling point or initial boiling point and boiling range:	310 °C - 335 °C	--	--

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Flammability:	N.A.	--	--
Lower and upper explosion limit:	N.A.	--	--
Flash point:	N.A.	--	--
Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	N.A.	--	--
pH:	1	--	--
Kinematic viscosity:	N.A.	--	--
Solubility in water:	total	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient n-octanol/water (log value):	N.A.	--	--
Vapour pressure:	6 Pa (20 °C / 68°F)	--	--
Density and/or relative density:	1.84 g/mL (20°C / 68°F)	ASTM-D4052	--
Relative vapour density:	N.A.	--	--

Particle characteristics:

Particle size:	N.A.	--	--
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9.2. Other information

Properties	Value	Method:	Notes:
Viscosity:	20 mm ² /s (20°C / 68°F)	--	--

SECTION 10: Stability and reactivity

10.1. Reactivity

In contact with water develops extreme heat

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

None

10.4. Conditions to avoid

Store away from heat.

10.5. Incompatible materials

Avoid contact with water, alkali metals, compounds alkali, ammonia, metals and alkaline earth compounds, bases, acids, metal alloys, etc.

10.6. Hazardous decomposition products

Decomposes at 340 ° C emitting fumes of SO_x.

Reacts with metals developing hydrogen.

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 Corr. 1A H314

c) serious eye damage/irritation

The product is classified: Eye Dam. 1 H318

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- d) respiratory or skin sensitisation
 - Not classified
 - Based on available data, the classification criteria are not met
- 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
 - Not classified
 - Based on available data, the classification criteria are not met
- j) aspiration hazard
 - Not classified
 - Based on available data, the classification criteria are not met

Adverse health effects

Related to the substances contained:

sulfuric acid:

ROUTES OF EXPOSURE: The substance can be absorbed into the body by inhalation of its aerosols and by ingestion.

INHALATION RISK: Evaporation at 20 ° C is negligible; a harmful concentration of airborne particles can, however, be reached quickly on spraying.

EFFECTS OF SHORT-TERM EXPOSURE: Corrosive. The substance is very corrosive to the eyes, the skin and the respiratory tract. Corrosive by ingestion. Inhalation of aerosol of this substance may cause pulmonary edema (see Notes).

EFFECTS OF REPEATED OR LONG-TERM EXPOSURE: Lungs may be damaged by repeated or prolonged exposure to aerosols of this substance. Danger of dental erosions due to repeated or prolonged aerosol exposures of this substance. Vapor of strong inorganic acids containing this substance are carcinogenic to humans.

ACUTE RISKS / SYMPTOMS

INHALATION Corrosive. Burning sensation. Sore throat. Cough. Respiratory difficulty. Shortness of breath. Symptoms may occur late (see Notes).

CUTE Corrosive. Redness. Ache. Blisters. Serious skin burns.

EYES Corrosive. Redness. Ache. Serious deep burns.

INGESTION Corrosive. Abdominal pain. Burning sensation. Shock or collapse.

NOTES: symptoms of pulmonary edema often do not manifest themselves before a few hours and are exacerbated by physical exertion. Rest and medical observation are therefore essential.

Toxicological information of the main substances found in the product:

sulphuric acid - CAS: 7664-93-9

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat = 375 mg/m³ - Source: Runkle BK & Hahn FF (1976) - Notes: OECD TG 403

Test: LC50 - Route: Inhalation - Species: Rat = 0.6 mL/L - Duration: 8h - Source: Runkle BK & Hahn FF (1976) - Notes: OECD TG 403

Test: LC50 - Route: Inhalation - Species: Rat = 0.85 mg/L - Duration: 4h - Source: Runkle BK & Hahn FF (1976) - Notes: OECD TG 403

Test: LD50 - Route: Oral - Species: Rat = 2140 mg/kg - Source: OECD (2001a) - Notes: OECD TG 401

g) reproductive toxicity:

Test: LOAEC - Route: Inhalation - Species: Mouse = 19.3 mg/m³ - Duration: 105 h - Source: Murray FJ, Schwetz BA, Nitschke KD, Crawford AA, Quast JF & Staples RE (1979) - Notes: OECD TG 414

Test: NOAEC - Route: Inhalation - Species: Mouse = 5.7 mg/m³ - Duration: 105 h - Source: Murray FJ, Schwetz BA, Nitschke KD, Crawford AA, Quast JF & Staples RE (1979) - Notes: OECD TG 414

Test: NOAEC - Route: Inhalation - Species: Mouse = 19.3 mg/m³ - Duration: 105 h - Source: Murray FJ, Schwetz BA, Nitschke KD, Crawford AA, Quast JF & Staples RE (1979) - Notes: OECD TG 401 - OECD TG 414

Test: LOAEC - Route: Inhalation - Species: Rabbit = 19.3 mg/m³ - Duration: 126 h - Source: Murray FJ, Schwetz BA, Nitschke KD, Crawford AA, Quast JF & Staples RE (1979) - Notes: OECD TG 414

Test: NOAEC - Route: Inhalation - Species: Rabbit = 5.7 mg/m³ - Duration: 126 h - Source: Murray FJ, Schwetz BA, Nitschke KD, Crawford AA, Quast JF & Staples RE (1979) - Notes: OECD TG 414

i) STOT-repeated exposure:

Test: LOAEC - Route: Inhalation - Species: Rat = 0.3 mg/m³ - Duration: 30 h - Source: Kilgour JD, Foster J, Soames A, Farrar DG & Hext PM (2002) Kilgour JD (2000) - Notes: OECD TG 412

11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration $\geq 0.1\%$

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Not classified for environmental hazards

Based on available data, the classification criteria are not met

sulphuric acid

a) Aquatic acute toxicity:

Endpoint: EL50 - Species: Daphnia > 100 mg/L - Duration h: 48 - Notes: Weyers, A(2009a) - OECD TG 202 - Species: Daphnia magna

Endpoint: LC50 - Species: Fish > 16 mg/L - Duration h: 96 - Notes: Ellegaard, EG & JY Gilmore III (1984) -

OECD TG (2001c) Species: Lepomis macrochirus

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Invertebrates = 0.15 mg/L - Notes: Henry L. Bell (1977) - OECD (2001f)

Endpoint: NOEC - Species: Fish = 0.31 mg/L - Notes: Hurley, GV, TP Foyle & WJ White (1989). Species: Salvelinus fontinalis

Endpoint: NOEC - Species: Fish = 0.025 mg/L - Duration h: 1560 - Notes: Fonte Craig, GR & Baksi, WF (1977) - OECD (2001c). Species: Jordanella floridae

Endpoint: NOEC - Species: Activated sludge = 26 g/L - Duration h: 888 - Notes: R. Yucel Tokuz and W. Wesley Eckenfelder Jr (1979)

e) Plant toxicity:

Endpoint: EC50 - Species: Algae > 100 mg/L - Duration h: 72 - Notes: Weyers, A (2009b) - OECD TG 201 - Species: Desmodesmus subspicatus

12.2. Persistence and degradability

sulphuric acid - CAS: 7664-93-9

Biodegradability: Not persistent. - Notes: Abiotic degradability: the product hydrolyzes.

12.3. Bioaccumulative potential

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sulphuric acid - CAS: 7664-93-9

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 $\geq 0.1\%$

12.7. Other adverse effects

None

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information



14.1. UN number or ID number

ADR-UN Number: 1830

IATA-UN Number: 1830

IMDG-UN Number: 1830

14.2. UN proper shipping name

ADR-Shipping Name: SULPHURIC ACID with more than 51% acid

IATA-Shipping Name: SULPHURIC ACID with more than 51% acid

IMDG-Shipping Name: SULPHURIC ACID with more than 51% acid

14.3. Transport hazard class(es)

ADR-Class: 8

ADR - Hazard identification number: 80

IATA-Class: 8

IATA-Label: 8

IMDG-Class: 8

14.4. Packing group

ADR-Packing Group: II

IATA-Packing group: II

IMDG-Packing group: II

14.5. Environmental hazards

ADR-Environmental Pollutant: No

IMDG-Marine pollutant: No

IMDG-EmS: F-A , S-B

14.6. Special precautions for user

ADR-Subsidiary hazards: -

ADR-S.P.: -

ADR-Transport category (Tunnel restriction code): 2 (E)

IATA-Passenger Aircraft: 851

IATA-Subsidiary hazards: -

IATA-Cargo Aircraft: 855

IATA-S.P.: -

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IATA-ERG: 8L
IMDG-Subsidiary hazards: -
IMDG-Stowage and handling: Category C SW15
IMDG-Segregation: SGG1a SG36 SG49
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. 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)
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:
Restriction 3
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
Product belongs to category: O1

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:
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H319 Causes serious eye irritation.

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Hazard class and hazard category	Code	Description
Skin Corr. 1A	3.2/1A	Skin corrosion, Category 1A
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Eye Irrit. 2	3.3/2	Eye irritation, Category 2

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Skin Corr. 1A, H314	Calculation method
Eye Dam. 1, H318	Calculation method

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 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.

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STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.