Safety Data Sheet
DRIZZLE

Safety Data Sheet dated 31/7/2023, version 8.0
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: DRIZZLE

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

Recommended use:

Drain tubes cleaner

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, Eye Irrit. 2, Causes serious eye irritation.

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.

Precautionary statements:

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

P302+P352 IF ON SKIN: Wash with plenty of soap and 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.

Special Provisions:

None

Contains

methenamine: May produce an allergic reaction.

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. Number	Classification
>= 7% - < 10%	glycolic acid	CAS: 79-14-1 EC: 201-180-5 REACH No.: 01-21194855 79-17-XXXX	2.16/1 Met. Corr. 1 H290 3.1/4/Inhal Acute Tox. 4 H332 3.2/1B Skin Corr. 1B H314 Specific Concentration Limits: C >= 15%: Skin Corr. 1B H314 5% <= C < 15%: Skin Irrit. 2 H315 5% <= C < 15%: Eye Irrit. 2 H319
>= 0.5% - < 1%	propan-2-ol	Index number: 603-117-00-0 CAS: 67-63-0 EC: 200-661-7 REACH No.: 01-21194575 58-25-XXXX	2.6/2 Flam. Liq. 2 H225 3.3/2 Eye Irrit. 2 H319 3.8/3 STOT SE 3 H336
>= 0.1% - < 0.25%	ethanol	Index number: 603-002-00-5 CAS: 64-17-5 EC: 200-578-6 REACH No.: 01-21194576 10-43-XXXX	2.6/2 Flam. Liq. 2 H225 3.3/2 Eye Irrit. 2 H319
>= 0.1% - < 0.25%	methenamine	Index number: 612-101-00-2 CAS: 100-97-0 EC: 202-905-8 REACH No.: 01-21194748 95-20-XXXX	2.7/2 Flam. Sol. 2 H228 3.4.2/1 Skin Sens. 1 H317
>= 0.01% - < 0.05%	ethanediol	Index number: 603-027-00-1 CAS: 107-21-1 EC: 203-473-3 REACH No.: 01-21194568 16-28-XXXX	3.1/4/Oral Acute Tox. 4 H302 3.9/2 STOT RE 2 H373

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.

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
No information available.
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.
Carbon dioxide (CO2).
Extinguishing media which must not be used for safety reasons:
None in particular.
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
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, 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:
Contamined 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

Store the product between + 0 °C / + 32 °F and + 40 °C / + 104 °F.
Keep away from food, drink and feed.
Incompatible materials:
None in particular.
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

propan-2-ol - CAS: 67-63-0

ACGIH - TWA(8h): 492 mg/m3, 200 ppm - STEL: 983 mg/m3, 400 ppm
EU - TWA(8h): 200 ppm - STEL(15min): 400 ppm

ethanol - CAS: 64-17-5

ACGIH - STEL(15min): 1884 mg/m3, 1000 ppm
EU - TWA(8h): 1000 ppm - Notes: A3

methenamine - CAS: 100-97-0

ACGIH - TWA(8h): 1 mg/m3 - Notes: (IFV), DSEN; A4 - Dermal sens

ethanediol - CAS: 107-21-1

EU - TWA(8h): 52 mg/m3, 20 ppm - STEL: 104 mg/m3, 40 ppm - Notes: Skin
VLEP - TWA(8h): 52 mg/m3, 20 ppm - STEL(15min): 104 mg/m3, 40 ppm - Notes: skin
AGW - TWA(8h): 26 mg/m3, 10 ppm - STEL(15min): 52 mg/m3, 20 ppm - Notes: Skin
MAK - TWA(8h): 26 mg/m3, 10 ppm - STEL(15min): 52 mg/m3, 20 ppm - Notes: Skin
VLA - TWA(8h): 52 mg/m3, 20 ppm - STEL(15min): 104 mg/m3, 40 ppm - Notes: Skin
VLEP - TWA(8h): 52 mg/m3, 20 ppm - STEL(15min): 104 mg/m3, 40 ppm - Notes: Skin
WEL - TWA(8h): 52 mg/m3, 20 ppm - STEL(15min): 104 mg/m3, 40 ppm - Notes: skin
TLV - TWA(8h): 125 mg/m3, 50 ppm - STEL(15min): 125 mg/m3, 50 ppm
GVI/KGVI - TWA(8h): 52 mg/m3, 20 ppm - STEL(15min): 104 mg/m3, 40 ppm - Notes: Skin
TLV - TWA(8h): 52 mg/m3, 20 ppm - STEL(15min): 104 mg/m3, 40 ppm - Notes: Skin
NDS - TWA(8h): 15 mg/m3 - STEL(15min): 20 mg/m3
TLV - TWA(8h): 50 mg/m3, 19.4 ppm - STEL(15min): 100 mg/m3, 38.8 ppm - Notes: skin
ESD - TWA(8h): 52 mg/m3, 20 ppm - STEL(15min): 104 mg/m3, 40 ppm - Notes: Skin
OEL - TWA(8h): 52 mg/m3, 20 ppm - STEL(15min): 104 mg/m3, 40 ppm - Notes: Skin
ACGIH - TWA: 52 mg/m3 - STEL: 10 mg/m3 - Notes: (I, H), A4 - URT irr

DNEL Exposure Limit Values

glycolic acid - CAS: 79-14-1

Worker Industry: 9.2 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects
Worker Industry: 9.2 mg/m³ - Consumer: 2.3 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Industry: 1.53 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects
Worker Industry: 58 mg/kg - Consumer: 29 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Consumer: 0.75 mg/kg - Exposure: Human Oral - Frequency: Long Term (repeated)

propan-2-ol - CAS: 67-63-0
Consumer: 26 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects
Worker Industry: 500 mg/m³ - Consumer: 89 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Industry: 888 mg/kg - Consumer: 319 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

ethanol - CAS: 64-17-5
Worker Industry: 1900 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects
Worker Industry: 950 mg/m³ - Consumer: 114 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Industry: 343 mg/kg - Consumer: 206 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Consumer: 87 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

methenamine - CAS: 100-97-0
Worker Professional: 6.4 mg/kg - Consumer: 3.2 mg/kg - Exposure: Human Dermal - Frequency: Short Term (acute)
Worker Professional: 6.4 mg/kg - Consumer: 3.2 mg/kg - Exposure: Human Dermal - Frequency: Long Term (repeated)
Worker Professional: 5.6 mg/m³ - Consumer: 1.2 mg/m³ - Exposure: Human Inhalation
Consumer: 0.8 mg/kg - Exposure: Human Oral

ethanediol - CAS: 107-21-1
Worker Industry: 35 mg/m³ - Consumer: 7 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects
Worker Industry: 106 mg/m³ - Consumer: 53 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values

glycolic acid - CAS: 79-14-1
Target: Fresh Water - Value: 0.0312 mg/L
Target: Marine water - Value: 0.0031 mg/L
Target: Freshwater sediments - Value: 0.115 mg/kg
Target: Marine water sediments - Value: 0.0115 mg/kg
Target: Soil (agricultural) - Value: 0.007 mg/kg
Target: Aquatic, periodic release - Value: 0.312 mg/L
Target: Microorganisms in sewage treatments - Value: 7 mg/L
Target: Secondary poisoning - Value: 11.66 mg/kg

propan-2-ol - CAS: 67-63-0
Target: Fresh Water - Value: 140.9 mg/L
Target: Marine water - Value: 140.9 mg/L
Target: Freshwater sediments - Value: 552 mg/kg
Target: Aquatic, periodic release - Value: 140.9 mg/L
Target: Microorganisms in sewage treatments - Value: 2251 mg/L
Target: Food chain - Value: 160 mg/kg
Target: Soil (agricultural) - Value: 28 mg/kg

ethanol - CAS: 64-17-5
Target: Fresh Water - Value: 0.96 mg/L
Target: Marine water - Value: 0.79 mg/L
Target: Freshwater sediments - Value: 3.6 mg/kg

Target: Marine water sediments - Value: 2.9 mg/kg
Target: Aquatic, periodic release - Value: 2.75 mg/L
Target: Microorganisms in sewage treatments - Value: 580 mg/L
Target: Secondary poisoning - Value: 380 mg/kg
Target: Soil (agricultural) - Value: 0.63 mg/kg

methenamine - CAS: 100-97-0
Target: Fresh Water - Value: 3 mg/L
Target: Marine water - Value: 0.3 mg/L
Target: Microorganisms in sewage treatments - Value: 100 mg/L
Target: Freshwater sediments - Value: 1.02 mg/kg
Target: Marine water sediments - Value: 1.02 mg/kg
Target: Soil (agricultural) - Value: 0.28 mg/kg

ethanediol - CAS: 107-21-1
Target: Fresh Water - Value: 10 mg/L
Target: Marine water - Value: 1 mg/L
Target: Freshwater sediments - Value: 37 mg/kg
Target: Marine water sediments - Value: 3.7 mg/kg
Target: Aquatic, periodic release - Value: 10 mg/L
Target: Microorganisms in sewage treatments - Value: 199.5 mg/L
Target: Soil (agricultural) - Value: 1.53 mg/kg

8.2. Exposure controls

Eye protection:

Use close safety visors, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Suitable gloves type:
work gloves resistant to penetration (ref. standard EN 374).
Suitable material:
FKM (fluoro rubber).
NR (natural rubber, natural latex).
NBR (nitrile rubber).
Material thickness: minimum 0.12 mm.
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:

In the case of vapour formation use a respirator with an approved filter.
Mask with filter "A", brown colour

Thermal Hazards:

None

Environmental exposure controls:

None

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:	Yellow	--	--
Odour:	characteristic perfumed	--	--

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:	>90 ° C	--	--
Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	N.A.	--	--
pH:	2.05	--	--
Kinematic viscosity:	N.A.	--	--
Solubility in water:	total	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient n-octanol/water (log value):	N.A.	--	--
Vapour pressure:	N.A.	--	--
Density and/or relative density:	1.045 g/mL (+20°C/+68°F)	--	--
Relative vapour density:	N.A.	--	--
Particle characteristics:			
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
Stable under normal conditions.
10.5. Incompatible materials
Bases, amines, alkali metals, permanganates.
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

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

Toxicological information of the main substances found in the product:

glycolic acid - CAS: 79-14-1

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg

Test: LC50 - Route: Inhalation Mist - Species: Rat 3.6 mg/L - Notes: (aerosol)

b) skin corrosion/irritation:

Test: Skin Corrosive - Route: Skin Positive

c) serious eye damage/irritation:

Test: Eye Corrosive - Route: Eyes Positive

d) respiratory or skin sensitisation:

Test: Skin Sensitization - Route: Skin Negative

e) germ cell mutagenicity:

Test: Respiratory Sensitization Negative

Test: Mutagenesis Negative

f) carcinogenicity:

Test: Carcinogenicity Negative

g) reproductive toxicity:

Test: Reproductive Toxicity Negative

propan-2-ol - CAS: 67-63-0

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 5840 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit 13900 mg/kg

Test: LC50 - Route: Inhalation Vapour - Species: Rat > 2500 mg/L - Duration: 4h

Test: LD50 - Route: Skin - Species: Rabbit 6290 mg/kg

g) reproductive toxicity:

Test: NOAEL - Route: Oral - Species: Rabbit 480 mg/kg

ethanol - CAS: 64-17-5

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 10470 mg/kg - Notes: OCSE 401

Test: LC50 - Route: Inhalation Vapour - Species: Rat = 124.7 mg/L - Duration: 4h - Notes: OCSE 403

g) reproductive toxicity:

Test: NOAEL - Route: Oral - Species: Rat > 20000 ppm - Notes: OCSE 414 (phoetal development)

methenamine - CAS: 100-97-0

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 20000 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg - Source: OECD 402

b) skin corrosion/irritation:

Test: Skin Irritant - Species: Rabbit Negative - Source: OECD 405

c) serious eye damage/irritation:

Test: Eye Irritant - Species: Rabbit Negative - Source: OECD 405

d) respiratory or skin sensitisation:

Test: Skin Sensitization - Route: Skin - Species: Guinea pig Positive - Source: OECD 406

e) germ cell mutagenicity:

Test: Bacterial reverse mutation test - Species: Salmonella Typhimurium Negative - Source: OECD 471

f) carcinogenicity:

Test: Carcinogenicity Negative

g) reproductive toxicity:

Test: LOAEL - Species: Rat - Notes: >= 1500 - <= 2500 mg/kg bw/day (F2 - nominal)

ethanediol - CAS: 107-21-1

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat 2.5 mg/L - Duration: 6 h

Test: LD50 - Route: Skin - Species: Mouse > 3500 mg/kg

b) skin corrosion/irritation:

Test: Skin Irritant - Route: Skin - Species: Rabbit Negative - Duration: 24 h

c) serious eye damage/irritation:

Test: Eye Irritant - Route: Eyes - Species: Rabbit Negative - Duration: 8h

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.

Not classified for environmental hazards

Based on available data, the classification criteria are not met

glycolic acid

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 115 mg/L - Duration h: 96 - Notes: US EPA E 72-2

Endpoint: EC50 - Species: Daphnia 99.6 mg/L - Duration h: 48 - Notes: OECD TG 202

Endpoint: LC50 - Species: Algae 15.3 mg/L - Duration h: 72 - Notes: OECD TG 201

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish 91 mg/L

Endpoint: NOEC - Species: Daphnia 71 mg/L

Endpoint: NOEC - Species: Algae 14 mg/L

propan-2-ol

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 100 mg/L - Duration h: 96 - Notes: Species: Pimephales promelas

Endpoint: LC50 - Species: Daphnia > 10000 mg/L - Duration h: 24

Endpoint: EC50 - Species: Algae 1800 mg/L - Duration h: 168 - Notes: Species: Scenedesmus quadricauda

ethanol

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 14200 mg/L - Duration h: 96 - Notes: Species: Pimephales promelas

Endpoint: EC50 - Species: Daphnia > 12300 mg/L - Duration h: 48 - Notes: Species: Daphnia magna

Endpoint: EC50 - Species: Algae > 275 mg/L - Duration h: 72 - Notes: Species: Chlorella vulgaris

Endpoint: EC50 - Species: Daphnia = 5012 mg/L - Duration h: 48 - Notes: Species: Ceriodaphnia dubia

Endpoint: EC50 - Species: Algae 4432 mg/L - Duration h: 168 - Notes: Species: lemna gibba

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia 9.6 mg/L - Duration h: 216 - Notes: Species: Daphnia magna

methenamine

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 41 mg/L - Duration h: 96 - Notes: Species: Lepomis macrochirus EPA-660/3-75-00 p. 61

Endpoint: EC50 - Species: Daphnia 36 mg/L - Duration h: 48 - Notes: Species: Daphnia magna ASTM

e) Plant toxicity:

Endpoint: EC50 - Species: Algae 3 mg/L - Duration h: 504 - Notes: Species: Selenastrum capricornutum (Algal assay procedure: bottle test. US EPA)

ethanediol

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 72860 mg/L - Duration h: 96 - Notes: Species: Pimephales promelas

Endpoint: EC50 - Species: Daphnia > 100 mg/L - Duration h: 48 - Notes: Species: Daphnia magna

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish 15830 mg/L - Duration h: 168 - Notes: Species: Pimephales promelas

Endpoint: NOEC - Species: Daphnia 8590 mg/L - Duration h: 168 - Notes: Species: Daphnia magna

c) Bacteria toxicity:

Endpoint: EC50 - Species: Bacteria > 10000 mg/L - Duration h: 16 - Notes: Species: Pseudomonas putida

e) Plant toxicity:

Endpoint: EC50 - Species: Algae 6500 mg/L - Duration h: 96 - Notes: 6500 - 13000 mg/L, Species Pseudokirchneriella subcapitata

12.2. Persistence and degradability

glycolic acid - CAS: 79-14-1

Biodegradability: Readily biodegradable - Test: Modified Sturm Test - Notes: OECD TG 301B / 301D

propan-2-ol - CAS: 67-63-0

Biodegradability: Readily biodegradable

ethanol - CAS: 64-17-5

Biodegradability: Readily biodegradable - Test: Solubility in water - Notes: 1000 - 10000 mg/L

methenamine - CAS: 100-97-0

Biodegradability: Readily biodegradable - Test: Die-Away Test - Notes: OECD 301A

ethanediol - CAS: 107-21-1

Biodegradability: Readily biodegradable - Test: Solubility in water - Notes: 1000 - 10000 mg/L
Biodegradability: Readily biodegradable - Test: OECD 301 - Duration: 10 d - %: 90 - Notes: 90 - 100%

12.3. Bioaccumulative potential
glycolic acid - CAS: 79-14-1
Bioaccumulation: Not bioaccumulative
propan-2-ol - CAS: 67-63-0
Bioaccumulation: Not bioaccumulative - Test: Kow - Partition coefficient 0.05
ethanol - CAS: 64-17-5
Bioaccumulation: Not bioaccumulative - Test: Kow - Partition coefficient 0.350000-
ethanediol - CAS: 107-21-1
Bioaccumulation: Very low bioaccumulative - Test: Kow - Partition coefficient -1.93 - Notes: Experimental value

12.4. Mobility in soil
ethanediol - CAS: 107-21-1
Mobility in soil: Mobile - Notes: Source: bibliography

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. 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)
Regulation (EU) n. 2021/849 (ATP 17 CLP)
Regulation (EU) n. 2022/692 (ATP 18 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
Restriction 40

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:

H290 May be corrosive to metals.
H332 Harmful if inhaled.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H225 Highly flammable liquid and vapour.
H336 May cause drowsiness or dizziness.
H228 Flammable solid.
H317 May cause an allergic skin reaction.
H302 Harmful if swallowed.
H373 May cause damage to organs through prolonged or repeated exposure.

Hazard class and hazard category	Code	Description
Met. Corr. 1	2.16/1	Substance or mixture corrosive to metals, Category 1
Flam. Liq. 2	2.6/2	Flammable liquid, Category 2
Flam. Sol. 2	2.7/2	Flammable solid, Category 2
Acute Tox. 4	3.1/4/Inhal	Acute toxicity (inhalation), Category 4
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Skin Corr. 1B	3.2/1B	Skin corrosion, Category 1B
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
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
STOT RE 2	3.9/2	Specific target organ toxicity - repeated exposure, Category 2

Paragraphs modified from the previous revision:

SECTION 8: Exposure controls/personal protection
SECTION 9: Physical and chemical properties
SECTION 11: Toxicological information
SECTION 12: Ecological information
SECTION 15: Regulatory information

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 Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	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.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.