Safety Data Sheet
DOUBLE CLEAN

Safety Data Sheet dated 25/11/2022, version 4

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

1.1. Product identifier

Mixture identification:

Trade name: DOUBLE CLEAN

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

Recommended use:

Biphasic detergent for car washing.

Uses advised against:

Any different use other than those identified.

1.3. Details of the supplier of the safety data sheet

Company:

RUPES S.p.A.
Via Marconi, 3A
20071 Vermezzo con Zelo (MI) – Italy

Competent person responsible for the safety data sheet:

e-mail: info_rupes@rupes.it
tel.: +3902946941

1.4. Emergency telephone number

Country	Emergency number	Country	Emergency number
Austria	+43 01406 43 43 (24/7)	Ireland	+353 01 809 2566 (24/7)
Belgium	+ 32 070 245 245 (24/7)	Latvia	+371 67042473 (24/7) 112
Bulgaria	+359 2 9154 233 (24/7)	Lithuania	+370 (85) 2362052 (24/7)
Croatia	+3851 2348 342 (24/7)	Luxembourg	+352 8002 5500 (24/7)
Cyprus	1401 (24/7)	Malta	112
Czech Republic	+420 224 919 293 (24/7)	Netherlands	+31 (0) 88 755 8000 (24/7)
Denmark	+45 8212 1212	Norway	+47 22 59 13 00 (24/7)
Estonia	+372 7943 794 (24/7) 16662 (National, 24/7)	Poland	112
Finland	+ 358 0800 147 111 (24/7)	Portugal	+351 800 250 250 (24/7)
France	+33 (0)1 45 42 59 59 (24/7)	Romania	+40 (0) 021318 3606 (24/7)
Germany	112	Slovakia	+421 2 5477 4166 (24/7)
Greece	+0030 2107793777 (24/7)	Slovenia	112
Hungary	+36 80 201 199 (24/7)	Spain	+ 34 91 562 04 20
Iceland	+354 5432222 (24/7) 112	Sweden	112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)


Warning, Met. Corr. 1, May be corrosive to metals.


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


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

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:

Danger

Hazard statements:

H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.

Precautionary statements:

P280 Wear protective gloves and eye/face protection.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
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.
P390 Absorb spillage to prevent material damage.

Special Provisions:

None

Contains

Alcohols, C12-14, ethoxylated, sulfates, sodium salts
Amines, coco alkyl, ethoxylated
Sodium hydroxide

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

Ingredients according to Regulation (EC) No. 648/2004:

Less than 5%: Amphoteric surfactants, phosphonates
5% - 15%: Non-ionic surfactants

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

Not applicable

3.2. Mixtures

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

Qty	Name	Ident. Number	Classification
>= 7% - < 10%	Decan-1-ol, ethoxylated	CAS: 26183-52-8 EC: 500-046-6	3.1/4/Oral Acute Tox. 4 H302 4.1/A1 Aquatic Acute 1 H400 3.3/2 Eye Irrit. 2 H319 LD50 – Oral; Rat < 2000 mg/kg bw

>= 5% - < 7%	Sodium hydroxide	Index number: 011-002-00-6 CAS: 1310-73-2 EC: 215-185-5 REACH No.: 01-2119457892-27	2.16/1 Met. Corr. 1 H290 3.2/1A Skin Corr. 1A H314 Specific Concentration Limits: C >= 5%: Skin Corr. 1A H314 2% <= C < 5%: Skin Corr. 1B H314 0,5% <= C < 2%: Skin Irrit. 2 H315 0,5% <= C < 2%: Eye Irrit. 2 H319
>= 3% - < 5%	Ethanol	Index number: 603-002-00-5 CAS: 64-17-5 EC: 200-578-6 REACH No.: 01-2119457610-23	2.6/2 Flam. Liq. 2 H225 3.3/2 Eye Irrit. 2 H319 Specific Concentration Limits: C >= 50%: Eye Irrit. 2 H319
>= 3% - < 5%	Alcohols, C12-14, ethoxylated, sulfates, sodium salts	CAS: 68891-38-3 EC: 500-234-8 REACH No.: 01-2119488639-16	3.2/2 Skin Irrit. 2 H315 3.3/1 Eye Dam. 1 H318 4.1/C3 Aquatic Chronic 3 H412
>= 1% - < 2.5%	Propan-2-ol	Index number: 603-117-00-0 CAS: 67-63-0 EC: 200-661-7 REACH No.: 01-2119457558-25	2.6/2 Flam. Liq. 2 H225 3.3/2 Eye Irrit. 2 H319 3.8/3 STOT SE 3 H336
>= 1% - < 2.5%	Amines, coco alkyl, ethoxylated	CAS: 61791-14-8 EC: 500-152-2	3.1/4/Oral Acute Tox. 4 H302 3.3/1 Eye Dam. 1 H318 4.1/C3 Aquatic Chronic 3 H412 ATE (Oral): 500 mg/kg bw
>= 1% - < 2.5%	(1-hydroxyethylidene) bisphosphonic acid, sodium salt	CAS: 29329-71-3 EC: 249-559-4	3.1/4/Oral Acute Tox. 4 H302 3.3/2 Eye Irrit. 2 H319 ATE (Oral): 500 mg/kg bw

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Remove contaminated clothing. Immediately take the shower. Consult a physician immediately.

In case of eyes contact:

Remove any contact lenses. Wash immediately and abundantly with water for at least 30/60 minutes, opening your eyelids well. Consult a physician immediately.

In case of Ingestion:

Drink water as much as possible. Do not induce vomiting unless specifically authorized by your doctor. Consult a physician immediately.

In case of Inhalation:

Bring the subject outdoors, away from the scene. If breathing ceases, practice artificial respiration. Take appropriate precautions for the rescuer. Consult a physician immediately.

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

None

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:
Nebulized water, carbon dioxide (CO2).
Extinguishing media which must not be used for safety reasons:
Do not use a direct 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
Always wear complete fire protection equipment.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
If it is safe to do so, move undamaged containers out of the immediate danger area.

SECTION 6: Accidental release measures

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

6.2. Environmental precautions
Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
Retain contaminated water and dispose of it.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up
For containment:
Store in suitable closed containers that has to be properly labelled.
For cleaning up:
Block the lackage as possible. Swipe up the product with adsorbent materials as sand or vermiculite. Transfer the product in a clean and dry container. Wash the area of the spillage and dispose of the waste according to national/local legislation. Always wear safety equipement while operating.
Eliminate residual with water jet. Dispose of the product accordin to provisions at section 13.

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.
Before transfer operations, make sure that there are no incompatible materials left in the containers.
Please also refer to section 8 for the recommended protective devices.
Advice on general occupational hygiene:
Handle and use according to the hygiene and safety standards of good industrial practice.
Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities
Keep away from food, drink and feed.

Incompatible materials:
Alluminium and its alloys.
Instructions as regards storage premises:
Adequately ventilated premises.

7.3. Specific end use(s)
None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
No occupational exposure limit available
DNEL Exposure Limit Values
Decan-1-ol, ethoxylated - CAS: 26183-52-8
Worker Industry: 294 mg/m³ - Consumer: 87 18 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Industry: 2080 mg/kg bw/day - Consumer: 1250 mg/kg bw/day - Exposure: Dermal - Frequency: Long Term, systemic effects
Consumer: 25 mg/kg bw/day - Exposure: Human Oral - Frequency: Long Term, systemic effects
Sodium hydroxide; caustic soda - CAS: 1310-73-2
Worker Industry: 1 mg/m^3 - Consumer: 1 mg/m^3 - Exposure: Human Inhalation - Frequency: Long Term, local effects - Notes: ECHA
Ethanol - CAS: 64-17-5
Worker Industry: 950 mg/m^3 - Consumer: 114 mg/m^3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects - Endpoint: Repeated dose toxicity (inhalation) - Notes: ECHA
Worker Industry: 1900 mg/m^3 - Consumer: 950 mg/m^3 - Exposure: Human Inhalation - Frequency: Short Term, local effects - Endpoint: Acute toxicity-irritation (ihnalation)
Worker Industry: 343 mg/kg - Consumer: 206 mg/kg - Exposure: N.A. - Frequency: Long Term, systemic effects - Endpoint: Repeated dose toxicity (dermal)
Consumer: 87 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects - Endpoint: Repeated dose toxicity (oral)
Alcohols, C12-14, ethoxylated, sulfates, sodium salts - CAS: 68891-38-3
Worker Industry: 175 mg/m^3 - Consumer: 52 mg/m^3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects - Endpoint: Repeated dose toxicity (inhalation) - Notes: ECHA
Worker Industry: 2750 mg/kg - Consumer: 1650 mg/kg - Exposure: N.A. - Frequency: Long Term, systemic effects - Endpoint: Repeated dose toxicity (dermal)
Consumer: 15 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects - Endpoint: Repeated dose toxicity (oral)
Propan-2-ol - CAS: 67-63-0
Worker Industry: 500 mg/m³ - Consumer: 89 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects - Endpoint: Repeated dose toxicity (inhalation) - Notes: ECHA Database
Worker Industry: 888 mg/kg - Consumer: 319 mg/kg - Exposure: N.A. - Frequency: Long Term, systemic effects - Endpoint: Repeated dose toxicity (dermal)
Consumer: 26 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects - Endpoint: Repeated dose toxicity (oral)
PNEC Exposure Limit Values
Decan-1-ol, ethoxylated - CAS: 26183-52-8
Target: Fresh Water - Value: 0.29 mg/l
Target: Marine water - Value: 0.029 mg/l
Target: STP - Value: 1.4 mg/l
Target: Freshwater sediments - Value: 31.92 mg/kg sediment dw
Target: Marine water sediments - Value: 3.19 mg/kg sediment dw

Target: Soil - Value: 1 mg/kg soil dw
Ethanol - CAS: 64-17-5
Target: Fresh Water - Value: 0.96 mg/l - Notes:: ECHA
Target: Marine water - Value: 0.79 mg/l
Target: Intermittent release - Value: 2.75 mg/l
Target: Sewage treatment plant - Value: 580 mg/l
Target: Freshwater sediments - Value: 3.6 mg/kg
Target: Soil (agricultural) - Value: 0.63 mg/kg
Target: Food chain - Value: 0.00072 mg/kg
Alcohols, C12-14, ethoxylated, sulfates, sodium salts - CAS: 68891-38-3
Target: Fresh Water - Value: 0.24 mg/l - Notes: ECHA
Target: Marine water - Value: 0.024 mg/l
Target: Sewage treatment plant - Value: 10000 mg/l
Target: Freshwater sediments - Value: 0.917 mg/kg
Target: Marine water sediments - Value: 0.092 mg/kg
Target: Soil (agricultural) - Value: 7.5 mg/kg
Propan-2-ol - CAS: 67-63-0
Target: Fresh Water - Value: 140.9 mg/l - Notes:: ECHA Database
Target: Marine water - Value: 140.9 mg/l
Target: Freshwater sediments - Value: 552 mg/kg
Target: Marine water sediments - Value: 552 mg/kg
Target: Soil (agricultural) - Value: 28 mg/kg
Target: STP - Value: 2251 mg/l

8.2. Exposure controls

Eye protection:

Use safety goggles with anti-scratch protection EN166; Do not use eyeglasses.

Protection for skin:

Wear workwear with long sleeves and safety footwear for professional use of category I (Ref. 89/686 / EEC and EN ISO 20344). Wash with soap and water after removing protective clothing.

Protection for hands:

Use protective gloves that guarantee total protection, PVC, neoprene or rubber (EN 374 1/2/3).

Gloves with protective factor 6 are recommended: permeation time> 480 min, thickness min 0.3 mm. (Ex: Natural Rubber - NR (0.5 mm); Polycloroprene - CR (0.5 mm); Nitrile - NBR (0.35 mm); Butyl Rubber (0.5 mm); FKM (0.4 mm) ; PVC (0.5 mm)).

Provide replacement of gloves if used with signs of wear, cracks or internal contamination.

Respiratory protection:

In case of exceeding the threshold value (eg TLV-TWA) of the substance or one or more of the substances present in the product, it is advisable to wear a B-type filter mask with the class (1, 2 or 3) Be chosen in relation to the limit of use concentration. (Standard EN 14387). In the case of gases or vapors of different nature and / or gases or vapors with particles (aerosols, fumes, fogs, etc.), combustible filters should be provided. The use of respiratory protection means is necessary if the technical measures taken are not sufficient to limit the exposure of the worker to the threshold values taken into account. The protection offered by masks is, however, limited. If the substance considered to be odorless or its odor threshold is higher than its TLV-TWA and in case of emergency, wear an open-air compressed-air breathing apparatus (EN 137) or a breathing apparatus External air (standard EN 138). For the correct choice of respiratory protective device, refer to EN 529.

Thermal Hazards:

None

Environmental exposure controls:

Emissions from production processes, including those from ventilation equipment, should be checked for compliance with environmental protection regulations.

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:	Biphasic liquid	--	--
Colour:	Upper phase: green Lower phase: light yellow	--	--
Odour:	Characteristic	--	--
Melting point/freezing point:	Not determined as not relevant for the product characterization	--	--
Boiling point or initial boiling point and boiling range:	Approx 90 °C	--	--
Flammability:	Not flammable	--	--
Lower and upper explosion limit:	Not explosive	--	--
Flash point:	> 60 °C	--	--
Auto-ignition temperature:	Not determined as not relevant for the product characterization	--	--
Decomposition temperature:	Not determined as not relevant for the product characterization	--	--
pH:	Approx 13,5	--	--
Kinematic viscosity:	Not determined as not relevant for the product characterization	--	--
Solubility in water:	Soluble in water	--	--
Solubility in oil:	Partially soluble	--	--
Partition coefficient n-octanol/water (log value):	Not applicable	--	--
Vapour pressure:	Not determined as not relevant for the product characterization	--	--
Density and/or relative density:	1.08	--	--
Relative vapour density:	Not determined as not relevant for the product characterization	--	--
Particle characteristics:			
Particle size:	Not applicable	--	--

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 exposing the product to direct sunlight, air and sources of heat or ignition.
10.5. Incompatible materials
Avoid contact with strongly oxidizing agents, aluminium, zinc, tin, copper and their alloys.
10.6. Hazardous decomposition products
In case of fire carbon oxides (COx) and nitrogen oxides can be produced (NOx).

SECTION 11: Toxicological information

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

Toxicological information of the product:

Not available

Toxicological information of the main substances found in the product:

Decan-1-ol, ethoxylated - CAS: 26183-52-8

a) acute toxicity:

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

Test: LD50 - Route: Dermal - Species: Rabbit > 2000 mg/kg bw

Test: LC50 - Route: Inhalation - Species: Rat > 1600 mg/m3

Sodium hydroxide - CAS: 1310-73-2

b) skin corrosion/irritation:

Test: Skin Corrosive - Route: Cutaneous - Species: Human Positive - Source: ECHA database

Ethanol - CAS: 64-17-5

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 10470 mg/kg - Source: ECHA - Notes: OECD 401

Test: LC50 - Route: Inhalation Vapour - Species: Rat = 116.9 mg/l - Duration: 4h - Notes: OECD 403

Test: LD50 - Route: Cutaneous - Species: Rabbit = 17100 mg/kg

b) skin corrosion/irritation:

Test: Skin Irritant - Route: Cutaneous - Species: Rabbit Negative - Notes: OECD 404

c) serious eye damage/irritation:

Test: Eye Irritant - Route: ocular - Species: Rabbit Positive - Notes: OECD 405

d) respiratory or skin sensitisation:

Test: Skin Sensitization - Route: Cutaneous - Species: Guinea Pig Negative - Notes: OECD 406

Alcohols, C12-14, ethoxylated, sulfates, sodium salts - CAS: 68891-38-3

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 4100 mg/kg - Source: ECHA database - Notes: OECD 401

Test: LD50 - Route: Dermal - Species: Rat > 2000 mg/kg - Notes: OECD 402

b) skin corrosion/irritation:

Test: Skin Irritant - Route: Cutaneous - Species: Rabbit Positive - Notes: OECD 404

c) serious eye damage/irritation:

Test: Eye Corrosive - Route: ocular - Species: Rabbit Positive - Notes: OECD 405

d) respiratory or skin sensitisation:

Test: Skin Sensitization - Route: Cutaneous - Species: Guinea Pig Negative - Notes: OECD 406

e) germ cell mutagenicity:

Test: Genotoxicity - Route: In vitro - Species: in vitro Negative - Notes: OECD 471/EU Method B.13/14

Test: Genotoxicity - Route: Oral - Species: Mouse Negative - Notes: OECD 475

g) reproductive toxicity:

Test: NOAEL - Route: Oral - Species: Rat Negative - Notes: OECD 416

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

a) acute toxicity:

Test: LC50 - Route: Oral - Species: Rat 5.84 g/kg - Duration: 14 days - Source: ECHA Database (Registration dossier) - Notes: OECD 401

Test: LC50 - Route: Dermal - Species: Rat 10000 ppm - Duration: 6h - Notes: OECD 403

Test: LC50 - Route: Dermal - Species: Rabbit 16.4 ml/kg - Duration: 14 days - Notes: OECD 402

b) skin corrosion/irritation:
Test: irritation - Route: Dermal - Species: Rabbit Positive - Duration: 4h
c) serious eye damage/irritation:
Test: irritation - Route: ocular - Species: Rabbit Positive - Duration: 14 days - Notes: OECD 405
d) respiratory or skin sensitisation:
Test: sensitization - Route: Dermal - Species: Guinea Pig Negative - Duration: 96h - Notes: OECD 406
e) germ cell mutagenicity:
Test: Genotoxicity - Route: In vitro - Species: Salmonella Typhimurium Negative - Duration: 48h - Notes: OECD 471
Test: Chromosome aberration - Species: Mouse Negative - Notes: OECD 474
f) carcinogenicity:
Test: Carcinogenicity - Route: Inhalation Vapour - Species: Rat Negative - Notes: OECD 451
i) STOT-repeated exposure:
Test: NOAEL - Route: Inhalation Vapour - Species: Rat 5000 mg/l - Notes: OECD 431
Amines, coco alkyl, ethoxylated - CAS: 61791-14-8
a) acute toxicity:
ATE (Oral): 500 mg/kg bw
(1-hydroxyethylidene) bisphosphonic acid, sodium salt - CAS: 29329-71-3
a) acute toxicity:
ATE (Oral): 500 mg/kg bw

If not differently specified, the information required in Regulation (EU)2020/878 listed below must be considered as N.A.:
a) acute toxicity;
b) skin corrosion/irritation;
c) serious eye damage/irritation;
d) respiratory or skin sensitisation;
e) germ cell mutagenicity;
f) carcinogenicity;
g) reproductive toxicity;
h) STOT-single exposure;
i) STOT-repeated exposure;
j) aspiration hazard.

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.
Decan-1-ol, ethoxylated - CAS: 26183-52-8
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish 1.2 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia 0.39 mg/l - Duration h: 48
Endpoint: ErC50 - Species: Algae 0.43 mg/l - Duration h: 72
b) Aquatic chronic toxicity:
Endpoint: EC10 - Species: Fish >= 2.92 mg/l - Notes: 30d
Endpoint: EC10 - Species: Daphnia >= 3.72 mg/l - Notes: 21d
Endpoint: ErC50 - Species: Algae >= 3.23 mg/l - Duration h: 72

Sodium hydroxide - CAS: 1310-73-2
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish Freshwater 125 mg/l - Duration h: 96 - Notes: Gambusia affinis
Ethanol - CAS: 64-17-5
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish Freshwater = 14200 mg/l - Duration h: 96 - Notes: ECHA - US EPA method E03-05 - Pimephales promelas
Endpoint: LC50 - Species: Daphnia = 5012 mg/l - Duration h: 48 - Notes: ASTM E729-80 - Ceriodaphnia dubia
b) Aquatic chronic toxicity:
Endpoint: NOEC - Species: Daphnia = 9.6 mg/l - Notes: 9 d - Daphnia magna
Alcohols, C12-14, ethoxylated, sulfates, sodium salts - CAS: 68891-38-3
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish Freshwater = 7.1 mg/l - Duration h: 96 - Notes: ECHA database - OECD 203 - Danio rerio
Endpoint: EC50 - Species: Daphnia = 7.2 mg/l - Duration h: 48 - Notes: OECD 202 - Daphnia magna
Endpoint: EC50 - Species: Algae = 27 mg/l - Duration h: 72 - Notes: OECD 201 - Desmodesmus subspicatus
b) Aquatic chronic toxicity:
Endpoint: NOEC - Species: Fish Freshwater = 0.14 mg/l - Notes: 28 d - OECD 204/OECD 215 - Oncorhynchus mykiss
Endpoint: NOEC - Species: Daphnia = 0.27 mg/l - Notes: 21 d - OECD 211 - Daphnia magna
c) Microorganism toxicity:
Endpoint: EC50 - Species: Microorganisms > 10 mg/l - Duration h: 16 - Notes: DIN 38412-8 - Pseudomonas putida
Propan-2-ol - CAS: 67-63-0
a) Aquatic acute toxicity:
Endpoint: EC50 - Species: Fish Freshwater = 9640 mg/l - Duration h: 96 - Notes: OECD 203 Pimephales promelas ECHA Database (Registration dossier)
Endpoint: LC50 - Species: Daphnia > 10000 mg/l - Duration h: 24 - Notes: OECD 202 Daphnia magna
Species: Algae = 1800 mg/l - Duration h: 7 - Notes: days Scenedesmus quadricauda

12.2. Persistence and degradability
Ethanol - CAS: 64-17-5
Biodegradability: Readily biodegradable - Test: Oxygen consumption - %: 84 - Notes: ECHA - 20 d
Alcohols, C12-14, ethoxylated, sulfates, sodium salts - CAS: 68891-38-3
Biodegradability: Readily biodegradable - Test: Dissolved organic carbon - Duration: 28 d - %: 100 - Notes: ECHA database - EU Method C.4-C
Propan-2-ol - CAS: 67-63-0
Biodegradability: Readily biodegradable - Notes: ECHA database

12.3. Bioaccumulative potential
Propan-2-ol - CAS: 67-63-0
Test: Kow - Partition coefficient 0.05

12.4. Mobility in soil
Not available

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

Additional disposal information:

SECTION 14: Transport information

14.1. UN number or ID number

ADR / RID:	1760
IMDG:	1760
IATA:	1760

14.2. UN proper shipping name

ADR / RID:	CORROSIVE LIQUID, N.O.S. (sodium hydroxide, Alanine, N,N-bis(carboxymethyl)-, trisodium salt)
IMDG:	CORROSIVE LIQUID, N.O.S. (sodium hydroxide, Alanine, N,N-bis(carboxymethyl)-, trisodium salt)
IATA:	CORROSIVE LIQUID, N.O.S. (sodium hydroxide, Alanine, N,N-bis(carboxymethyl)-, trisodium salt)

14.3. Transport hazard class(es)

ADR / RID:	Class: 8	Label: 8
IMDG:	Class: 8	Label: 8
IATA:	Class: 8	Label: 8

14.4. Packing group

ADR / RID:	II
IMDG:	II
IATA:	II

14.5. Environmental hazards

ADR / RID:	NO
IMDG:	NO
IATA:	NO

14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 80	Limited quantities: 1 L
		Tunnel restriction code: (E)
	Special provisions: -	
IMDG:	EMS: F-A, S-B	
	Limited quantities: 1 L	
IATA:	Cargo:	Maximum quantity: 30 L
		Labelling instructions: 855
	Pass.:	Maximum quantity: 1 L
		Labelling instructions: 851
	Special provisions: A3, A803	

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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:

None

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:

H302 Harmful if swallowed.
H400 Very toxic to aquatic life.
H319 Causes serious eye irritation.
H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H225 Highly flammable liquid and vapour.
H318 Causes serious eye damage.
H412 Harmful to aquatic life with long lasting effects.
H336 May cause drowsiness or dizziness.

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
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Skin Corr. 1A	3.2/1A	Skin corrosion, Category 1A
Skin Corr. 1B	3.2/1B	Skin corrosion, Category 1B
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
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3

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
Met. Corr. 1, H290	On basis of test data
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.

Changes introduced from the previous versione of the SDS: section 14.

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.
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.