

SAFETY DATA SHEET

TG Sani Oxal

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

1.1. Product identifier

Trade name

TG Sani Oxal

Product no.

0352010, 0352110, 0352115, 0352210, 0352211, 0352212, 0352215, 0352510, 0352910, 0353250, 0353450, 0354510, 0355300

Unique formula identifier (UFI)

SM00-VRQQ-2Q43-M261

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

Relevant identified uses of the substance or mixture

Specialized strong decalcifier
Restricted to professional users.

Product code (A.I.S.E.)

Code

AISE-C14 / DESCALERS.

Use descriptors (REACH)

Sectors of use	Description
LCS "PW"	Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Product category	Description
PC 35	Washing and Cleaning Products (including solvent based products)
Process category	Description
PROC 10	Roller application or brushing

Uses advised against

None known.

1.3. Details of the supplier of the safety data sheet

Company and address

TG-Clean

Værkstedsvej 24 A
4600 Køge
Denmark
4390 8400
www.tg-clean.dk

Contact person

Thomas Gadegaard

E-mail

tg@tg-clean.dk

Revision

8/12/2023

SDS Version

1.0

1.4. Emergency telephone number

Contact the poison hotline: +45 82 12 12 12 (24 hour service)
See section 4 "First aid measures".

SECTION 2: Hazards identification

Classified according to Regulation (EC) No. 1272/2008 (CLP).

2.1. Classification of the substance or mixture

Skin Corr. 1B; H314, Causes severe skin burns and eye damage.

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Eye Dam. 1; H318, Causes serious eye damage.

2.2. Label elements

Hazard pictogram(s)



Signal word

Danger

Hazard statement(s)

Causes severe skin burns and eye damage. (H314)

Precautionary statement(s)

General

-

Prevention

Do not breathe vapour/mist. (P260)

Wear eye protection/protective gloves. (P280)

Response

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

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. (P305+P351+P338)

Immediately call a POISON CENTER/doctor. (P310)

Storage

-

Disposal

Dispose of contents/container in accordance with local regulation (P501)

Hazardous substances

Hydrochloric acid

oxalic acid

ammonium hydrogendifluoride

lactic acid

Additional labelling

UFI: SM00-VRQQ-2Q43-M261

2.3. Other hazards

Additional warnings

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable. This product is a mixture.

3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
Hydrochloric acid	CAS No.: 7647-01-0 EC No.: 231-595-7 REACH: 01-2119484862-27-XXXX Index No.: 017-002-00-2	3-5%	Met. Corr. 1, H290 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335	[1]
Ethanol	CAS No.: 64-17-5 EC No.: 200-578-6 REACH: 01-2120063206-63-XXXX Index No.: 603-002-00-5	3-5%	Flam. Liq. 2, H225 Eye Irrit. 2, H319	
citric acid	CAS No.: 77-92-9 EC No.: 201-069-1 REACH: 01-2119457026-42-XXXX Index No.: 607-750-00-3	3-5%	Eye Irrit. 2, H319	
oxalic acid	CAS No.: 6153-56-6 EC No.: 612-167-2 REACH: 01-2119534576-33-xxxx	1-3%	Acute Tox. 4, H302 Acute Tox. 4, H312 Eye Dam. 1, H318	

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

	Index No.:		
ammonium hydrogendifluoride	CAS No.: 1341-49-7 EC No.: 215-676-4 REACH: 01-2119489180-38-XXXX Index No.: 009-009-00-4	1-3%	Acute Tox. 3, H301 Skin Corr. 1B, H314 Eye Dam. 1, H318
poly glycol ether	CAS No.: 9038-95-3 EC No.: 618-542-7 REACH: 02-2119630717-36-0000 Index No.:	1-3%	Acute Tox. 4, H302
propan-2-ol isopropyl alcohol isopropanol	CAS No.: 67-63-0 EC No.: 200-661-7 REACH: 01-2119457558-25-XXXX Index No.: 603-117-00-0	1-3%	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
lactic acid	CAS No.: 79-33-4 EC No.: 201-196-2 REACH: 01-2119474164-39-XXXX Index No.:	1-3%	EUH071 Skin Corr. 1C, H314 Eye Dam. 1, H318

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

[1] European occupational exposure limit.

Labelling of contents according to Detergents Regulation (EC) No 648/2004

< 5%

- Amphoteric surfactants
- Anionic surfactants
- Non-ionic surfactants

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact

Flush exposed area with water for a long time - at least 30 minutes. It may be necessary to flush for several hours. Use a comfortable water temperature (20-30 °C). Contact Poison Information/doctor/hospital for further advice on follow-up and treatment.

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

Eye contact

If in eyes: Flush eyes with plenty of water or salt water (20-30 °C) for at least 30 minutes and continue until irritation stops. Remove contact lenses. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.

Ingestion

In the case of ingestion, contact a doctor immediately. If the person is conscious, give them water. DO NOT try to induce vomiting unless this is recommended by a doctor. Hold head facing down to prevent vomit from returning to the mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

Burns

Not applicable.

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

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

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

IF exposed or concerned:
Get immediate medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Not applicable.

5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Halogenated compounds
Carbon oxides (CO / CO₂)

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact the chemical emergency services on 72 85 20 00 (24 h service) in order to obtain further advice.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances.
Ensure adequate ventilation, especially in confined areas.
Contaminated areas may be slippery.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.
Keep unauthorized persons away from the spill

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.
Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.
See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid direct contact with the product.
Smoking, drinking and consumption of food is not allowed in the work area.
See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers and store protected from moisture and light. Containers should be dated when opened and tested periodically for the presence of peroxides. Do not exceed storage time limits.
Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage material

Always store in containers of the same material as the original container.

Storage temperature

> 0°C

Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Hydrochloric acid

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Long term exposure limit (8 hours) (mg/m³): 8 mg/m³
 Long term exposure limit (8 hours) (ppm): 5 ppm
 Annotations:
 L = The limit is a ceiling value that at no time may be exceeded.

Ethanol
 Long term exposure limit (8 hours) (mg/m³): 1900
 Long term exposure limit (8 hours) (ppm): 1000

oxalic acid
 Long term exposure limit (8 hours) (mg/m³): 1 mg/m³
 Annotations:
 E = Substance has an EC limit.

propan-2-ol isopropyl alcohol isopropanol
 Long term exposure limit (8 hours) (mg/m³): 490
 Long term exposure limit (8 hours) (ppm): 200

Statutory order 202 on exposure limits for substances and mixtures (21/02/2023)

DNEL

ammonium hydrogendifluoride

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects	Inhalation	2,3 mg/m ³

Ethanol

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - Workers	Dermal	343 mg/kg/bw/day
Long term – Systemic effects - Workers	Inhalation	950 mg/m ³
Short term – Local effects - Workers	Inhalation	1900 mg/m ³

Hydrochloric acid

Duration:	Route of exposure:	DNEL:
Long term – Local effects - Workers	Inhalation	8 mg/m ³
Short term – Local effects - Workers	Inhalation	15 mg/m ³

oxalic acid

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - Workers	Dermal	2,29 mg/kg uge/dag
Short term – Local effects - Workers	Dermal	0,69 mg/cm ²
Long term – Systemic effects - Workers	Inhalation	4,03 mg/m ³

propan-2-ol isopropyl alcohol isopropanol

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - Workers	Inhalation	500 mg/m ³

PNEC

ammonium hydrogendifluoride

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		1,3 mg/l
Sewage treatment plant		76 mg/l
Soil		22 mg/kg

citric acid

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		0,44
Marine water		0,044
Sewage treatment plant		>1000

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Ethanol		
Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		0,96mg/l
Freshwater sediment		3,6 mg/kg dw
Intermittent release		2,75 mg/l
Marine water		0,79 mg/l
Marine water sediment		2,9 mg/kg dw
Sewage treatment plant		580 mg/l
Soil		0,63 mg/kg
Hydrochloric acid		
Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		0,036 mg/l
Marine water		0,036 mg/l
Sewage treatment plant		0,036 mg/l
oxalic acid		
Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		0,1622 mg/l
Intermittent release		1,622 mg/l
Marine water		0,01622 mg/l
propan-2-ol isopropyl alcohol isopropanol		
Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		140,9 mg/l
Freshwater sediment		522 mg/kg
Marine water		140,9 mg/l
Marine water sediment		552 mg/kg
Sewage treatment plant		2251 mg/l
Soil		28 mg/kg

8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios

There are no exposure scenarios implemented for this product.

Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.

Ensure that eyewash stations and safety showers are located within easy reach.

Apply standard precautions during use of the product. Avoid inhalation of vapours.

Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible, collect spillage during work.





Individual protection measures, such as personal protective equipment

Generally

Use only CE marked protective equipment.

Respiratory Equipment

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Type	Class	Colour	Standards	
S/SL	P2	White	EN149	
Skin protection				
Recommended	Type/Category	Standards		
Dedicated work clothing should be worn.	-	-		
Hand protection				
Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Nitrile	0.4	> 480	EN374-2, EN374-3, EN388	
Eye protection				
Type	Standards			
Safety glasses with side shields.	EN166			

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Liquid

Colour

Colourless

Odour / Odour threshold

Sour

pH

1,8 +/-1

pH in solution

1,9 (2%)

Density (g/cm³)

1.05 (20 °C)

Kinematic viscosity

Testing not relevant or not possible due to the nature of the product.

Particle characteristics

Does not apply to liquids.

Phase changes

Melting point/Freezing point (°C)

Testing not relevant or not possible due to the nature of the product.

Softening point/range (waxes and pastes) (°C)

Does not apply to liquids.

Boiling point (°C)

Testing not relevant or not possible due to the nature of the product.

Vapour pressure

Testing not relevant or not possible due to the nature of the product.

Relative vapour density

Testing not relevant or not possible due to the nature of the product.

Decomposition temperature (°C)

Testing not relevant or not possible due to the nature of the product.

Data on fire and explosion hazards

Flash point (°C)

Testing not relevant or not possible due to the nature of the product.

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Flammability (°C)

Testing not relevant or not possible due to the nature of the product.

Auto-ignition temperature (°C)

Testing not relevant or not possible due to the nature of the product.

Lower and upper explosion limit (% v/v)

Testing not relevant or not possible due to the nature of the product.

Solubility

Solubility in water

Completely soluble

n-octanol/water coefficient

Testing not relevant or not possible due to the nature of the product.

Solubility in fat (g/L)

Testing not relevant or not possible due to the nature of the product.

9.2. Other information

Other physical and chemical parameters

No data available.

Oxidizing properties

Testing not relevant or not possible due to the nature of the product.

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products

Thermal decomposition may produce corrosive vapours.

SECTION 11: Toxicological information

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

Acute toxicity

Product/substance	Hydrochloric acid
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	273 mg/kg ·

Product/substance	Hydrochloric acid
Species:	Rabbit
Route of exposure:	Dermal
Test:	LD50
Result:	5010 mg/kg ·

Product/substance	Hydrochloric acid
Species:	Rat
Route of exposure:	Inhalation
Test:	LC50
Result:	8,3 mg/l ·

Product/substance	Ethanol
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	7060 mg/kg ·

Product/substance	Ethanol
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According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Species: Route of exposure: Test: Result:	Rabbit Dermal LD lo 20 gram/kg ·
Product/substance Species: Route of exposure: Test: Result:	Ethanol Rat Inhalation LC50 2000 ppm 10H ·
Product/substance Species: Route of exposure: Test: Result:	citric acid Rat Oral LD50 6730 mg/kg ·
Product/substance Species: Route of exposure: Test: Result:	citric acid Rat Dermal LD50 >2000 mg/kg ·
Product/substance Species: Route of exposure: Test: Result:	oxalic acid Rat Oral LD50 375 mg/kg ·
Product/substance Species: Route of exposure: Test: Result:	oxalic acid Rabbit Dermal LD50 20000 mg/kg ·
Product/substance Species: Route of exposure: Test: Result:	ammonium hydrogendifluoride Rat Oral LD50 130 mg/kg ·
Product/substance Species: Route of exposure: Test: Result:	ammonium hydrogendifluoride Rat Inhalation LC50 1276 mg/l 1h ·
Product/substance Species: Route of exposure: Test: Result:	poly glycol ether Rat Oral LD50 200-2000 mg/kg ·
Product/substance Species: Route of exposure: Test: Result:	propan-2-ol isopropyl alcohol isopropanol Rat Oral LD50 5045 mg/kg ·
Product/substance Species: Route of exposure: Test: Result:	propan-2-ol isopropyl alcohol isopropanol Rabbit Dermal LD50 12800 mg/kg ·
Product/substance Species:	propan-2-ol isopropyl alcohol isopropanol Rat

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Route of exposure:	Inhalation
Test:	LC50
Result:	16000 mg/l ·

Product/substance	lactic acid
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	3730 mg/kg

Product/substance	lactic acid
Species:	Rabbit
Route of exposure:	Dermal
Test:	LD50
Result:	>2000 mg/kg ·

Product/substance	lactic acid
Species:	Mouse
Route of exposure:	Oral
Test:	LD50
Result:	4875 mg/kg

Skin corrosion/irritation

Product/substance	Hydrochloric acid
Test method:	OECD 404
Species:	Rabbit
Duration:	4 hours
Result:	Adverse effect observed (Corrosive)

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Product/substance	Hydrochloric acid
Test method:	OECD 405
Species:	Rabbit
Duration:	No data available.
Result:	Adverse effect observed (Highly corrosive)

Product/substance	oxalic acid
Test method:	OECD 405
Species:	Rabbit
Duration:	No data available.
Result:	Adverse effect observed (Causes serious eye damage)

Causes serious eye damage.

Respiratory sensitisation

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

Skin sensitisation

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

Germ cell mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

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

11.2. Information on other hazards

Long term effects

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

Endocrine disrupting properties

Not applicable.

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Other information

Hydrochloric acid has been classified by IARC as a group 3 carcinogen.

Ethanol has been classified by IARC as a group 1 carcinogen.

propan-2-ol isopropyl alcohol isopropanol has been classified by IARC as a group 3 carcinogen.

SECTION 12: Ecological information

12.1. Toxicity

Product/substance	Hydrochloric acid
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	20,5 mg/l ·

Product/substance	Hydrochloric acid
Species:	Algae
Duration:	72 hours
Test:	EC50
Result:	0,73 mg/l ·

Product/substance	Hydrochloric acid
Species:	Daphnia
Duration:	48 hours
Test:	EC50
Result:	0,45 mg/l ·

Product/substance	citric acid
Species:	Daphnia
Duration:	72 hours
Test:	EC50
Result:	120 mg/l ·

Product/substance	oxalic acid
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	160 mg/l ·

Product/substance	oxalic acid
Species:	Daphnia
Duration:	48 hours
Test:	EC50
Result:	162.2 mg/l ·

Product/substance	ammonium hydrogendifluoride
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	237 mg/l ·

Product/substance	ammonium hydrogendifluoride
Species:	
Duration:	96 hours
Test:	LC100
Result:	562 mg/L ·

Product/substance	ammonium hydrogendifluoride
Species:	
Duration:	No data available.
Test:	EC10
Result:	1317 mg/l ·

Product/substance	ammonium hydrogendifluoride
Species:	Daphnia
Duration:	48 hours
Test:	EC50

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Result:	97 mg/l ·
Product/substance	ammonium hydrogendifluoride
Species:	Algae
Duration:	96 hours
Test:	EC50
Result:	43 mg/l ·
Product/substance	poly glycol ether
Species:	Daphnia
Duration:	48 hours
Test:	EC50
Result:	>100 mg/l ·
Product/substance	poly glycol ether
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	>100 mg/l ·
Product/substance	propan-2-ol isopropyl alcohol isopropanol
Species:	Algae
Duration:	24 hours
Test:	EC50
Result:	1000000 ug/l ·
Product/substance	propan-2-ol isopropyl alcohol isopropanol
Species:	Fish
Duration:	48 hours
Test:	LC50
Result:	1400000 ug/l ·
Product/substance	lactic acid
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	320 mg/l ·
Product/substance	lactic acid
Species:	Daphnia
Duration:	48 hours
Test:	EC50
Result:	240 mg/l ·
Product/substance	lactic acid
Species:	Algae
Duration:	72 hours
Test:	IC50
Result:	3500 mg/l ·

12.2. Persistence and degradability

Product/substance	poly glycol ether
Biodegradable:	Yes
Test method:	OECD 301 F
Result:	>60%

12.3. Bioaccumulative potential

Product/substance	citric acid
Test method:	
Potential bioaccumulation:	No data available.
LogPow:	-1.7200
BCF:	No data available.
Other information:	

Product/substance	oxalic acid
Test method:	
Potential bioaccumulation:	No
LogPow:	-1.7000

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

BCF: No data available.
Other information:

Product/substance ammonium hydrogendifluoride
Test method:
Potential bioaccumulation: No
LogPow: -4.3700
BCF: No data available.
Other information:

Product/substance propan-2-ol isopropyl alcohol isopropanol
Test method:
Potential bioaccumulation: No
LogPow: 0.0500
BCF: No data available.
Other information:

Product/substance lactic acid
Test method:
Potential bioaccumulation: No
LogPow: -0.6200
BCF: No data available.
Other information:

12.4. Mobility in soil

propan-2-ol isopropyl alcohol isopropanol
LogKoc = 0.117995, High mobility potential.

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

12.6. Endocrine disrupting properties

Not applicable.

12.7. Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste.
HP 8 – Corrosive
Dispose of contents/container to an approved waste disposal plant.
Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.


EWC code

20 01 14* Acids



Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: Transport information

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es) Label: 8 Classification code: C1	14.4 PG*	14.5 Envv**	Other information:
ADR	UN3264	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Hydrochloric acid, lactic acid, ammonium hydrogendifluoride)	Transport hazard class: 8 Label: 8 Classification code: C1 	III	No	Limited quantities: 5 L Tunnel restriction code: (E) See below for additional information.
IMDG	UN3264	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Hydrochloric acid, lactic acid, ammonium hydrogendifluoride)	Transport hazard class: 8 Label: 8 Classification code: C1	III	No	Limited quantities: 5 L EmS: F-A S-B See below for

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
					additional information.
IATA	UN3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Hydrochloric acid, lactic acid, ammonium hydrogendifluoride)	Transport hazard class: 8 Label: 8 Classification code: C1 	III	No	See below for additional information.

* Packing group

** Environmental hazards

Additional information

ADR / See Table A, Section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.

IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

This product is within scope of the regulations of transport of dangerous goods.

14.6. Special precautions for user

Not applicable.

14.7. Maritime transport in bulk according to IMO instruments

No data available.

SECTION 15: Regulatory information

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

Restrictions for application

Restricted to professional users.

People under the age of 18 shall not be exposed to this product.

Demands for specific education

No specific requirements.

SEVESO - Categories / dangerous substances

Hydrochloric acid

Regulation on drug precursors

Hydrochloric acid is included (Category 3)

Additional information

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Sources

The Danish Working Environment Authority's executive order no. 239 of 6 April 2005 on young people's work.

Based on Council Directive 94/33 / EC of 22 June 1994 on the protection of young people at work.

Pregnant workers and workers who are breastfeeding (AT Guide A.1.8-6, amended 2020).

Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents.

Executive Order no. 372 of 25 April 2016 on control of the risk of major accidents with dangerous substances.

Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

Council Regulation (EC) No 273/2004 on drug precursors.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

No

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

EUH071, Corrosive to the respiratory tract.
 H225, Highly flammable liquid and vapour.
 H290, May be corrosive to metals.
 H301, Toxic if swallowed.
 H302, Harmful if swallowed.
 H312, Harmful in contact with skin.
 H314, Causes severe skin burns and eye damage.
 H318, Causes serious eye damage.
 H319, Causes serious eye irritation.
 H335, May cause respiratory irritation.
 H336, May cause drowsiness or dizziness.

The full text of identified uses as mentioned in section 1

LCS "PW" = Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
 PROC 10 = Roller application or brushing
 PC 35 = Washing and Cleaning Products (including solvent based products)

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
 ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
 ATE = Acute Toxicity Estimate
 BCF = Bioconcentration Factor
 CAS = Chemical Abstracts Service
 CE = Conformité Européenne (European conformity)
 CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
 CSA = Chemical Safety Assessment
 CSR = Chemical Safety Report
 DMEL = Derived Minimal Effect Level
 DNEL = Derived No Effect Level
 EINECS = European Inventory of Existing Commercial chemical Substances
 ES = Exposure Scenario
 EUH statement = CLP-specific Hazard statement
 EWC = European Waste Catalogue
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IARC = International Agency for Research on Cancer (IARC)
 IATA = International Air Transport Association
 IBC = Intermediate Bulk Container
 IMDG = International Maritime Dangerous Goods
 LogPow = logarithm of the octanol/water partition coefficient
 MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
 OECD = Organisation for Economic Co-operation and Development
 PBT = Persistent, Bioaccumulative and Toxic
 PNEC = Predicted No Effect Concentration
 RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
 RRN = REACH Registration Number
 SCL = A specific concentration limit
 SVHC = Substances of Very High Concern
 STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
 STOT-SE = Specific Target Organ Toxicity - Single Exposure
 TWA = Time weighted average
 UN = United Nations
 UVBC = Unknown or variable composition, complex reaction products or of biological materials
 VOC = Volatile Organic Compound
 vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP).

The safety data sheet is validated by

Tom Hornshøj-Møller

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: DK-en