SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006 as amended by Regulation (EU) No. 2020/878, and
Regulation (EC) No. 1272/2008

Revision date 25-Mar-2024 **Revision Number** 1

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

1.1. Product identifier

Product Code(s) 1901; 1901-1; 1905; 1915; 1955

Product Name Luminox

Unique Formula Identifier (UFI) GH90-H09J-V00G-G7RS

Synonyms None

Pure substance/mixture Mixture

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

Recommended use Cleaning agent; Detergent

Uses advised against Do not mix with other detergents unless otherwise specified

1.3. Details of the supplier of the safety data sheet

Supplier
Alconox, LLC
30 Glenn St., Suite 309
White Plains, NY 10603 USA
914-948-4040

For further information, please contact
E-mail address cleaning@alconox.com

1.4. Emergency telephone number

Emergency telephone ChemTel Inc.: North America: 1-888-255-3924
International: +1-813-248-0573

Emergency telephone - §45 - (EC)1272/2008	
Europe	**112**

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin irritation	Category 2 - (H315)
Serious eye damage	Category 1 - (H318)

2.2. Label elements

Contains Monoisopropanol amine; Octenylsuccinic acid

Signal word
Danger

Hazard statements
H315 - Causes skin irritation.
H318 - Causes serious eye damage.

Precautionary Statements - EU (§28, 1272/2008)
P264 - Wash face, hands and any exposed skin thoroughly after handling.
P280 - Wear protective gloves, eye protection and face protection.
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 or doctor.
P321 - Specific treatment (see information on this label).
P362 + P364 - Take off contaminated clothing and wash it before reuse.

2.3. Other hazards

Other hazards No information available.

PBT & vPvB None known

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	Weight-%	REACH registration number	EC No (EU Index No)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)	Notes
Glycol 34590-94-8	28	No data available	252-104-2	No data available	-	-	-	-
1-Butoxy-2-propanol 5131-66-8	3-7	No data available	225-878-4 (603-052-00-8)	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	-	-	-	-
Monoisopropanol amine 78-96-6	1-5	No data available	201-162-7 (603-082-00-1)	Skin Corr. 1B (H314)	-	-	-	-
Citric acid 77-92-9	1-5	No data available	201-069-1 (607-750-00-3)	Eye Irrit. 2 (H319) STOT SE 3 (H335)	-	-	-	-
Octenylsuccinic acid 28805-58-5	1-5	No data available	249-244-1	Skin Corr. 1 (H314) Eye Dam. 1 (H318)	-	-	-	-
Sodium polyacrylate	0.5	No data	-	No data available	-	-	-	-

9003-04-7		available						

Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Glycol 34590-94-8	5350	9500	No data available	No data available	No data available
1-Butoxy-2-propanol 5131-66-8	3300	2002	No data available	No data available	No data available
Monoisopropanol amine 78-96-6	1715	No data available	No data available	No data available	No data available
Citric acid 77-92-9	3000	2002	No data available	No data available	No data available
Sodium polyacrylate 9003-04-7	40000	No data available	No data available	No data available	No data available

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

Inhalation Remove to fresh air. Get medical attention immediately if symptoms occur.

Eye contact Get immediate medical attention. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area.

Skin contact Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a doctor.

Self-protection of the first aider Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

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

Symptoms Burning sensation.

Effects of Exposure No information available.

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

Note to doctors Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media No information available.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical No information available.

Hazardous combustion products Carbon dioxide (CO2). Nitrogen oxides (NOx).

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation.

Other information Refer to protective measures listed in Sections 7 and 8.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so. Keep out of drains, sewers, ditches and waterways.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information See section 13 for more information

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse.

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children.

Storage class (TRGS 510) LGK 10.

7.3. Specific end use(s)

Specific use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Glycol 34590-94-8	TWA: 50 ppm; TWA: 308 mg/m³; pSk	TWA-TMW: 50 ppm; TWA-TMW: 307 mg/m³; STEL-KZGW: 100 ppm (8 X 5 min); STEL-KZGW: 614 mg/m³ (8 X 5 min); Sk	TWA: 50 ppm; TWA: 308 mg/m³; Sd	TWA: 50 ppm; TWA: 308.0 mg/m³; Sk	TWA-GVI: 50 ppm; TWA-GVI: 308 mg/m³; Sk
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Glycol 34590-94-8	TWA: 50 ppm; TWA: 308 mg/m³; pSk	TWA: 270 mg/m³; Ceiling: 550 mg/m³; pSk	TWA: 50 ppm; TWA: 309 mg/m³; STEL: 100 ppm; STEL: 618 mg/m³; pSk	TWA: 50 ppm; TWA: 308 mg/m³; Sk	TWA: 50 ppm; TWA: 310 mg/m³; pSk
1-Butoxy-2-propanol 5131-66-8	-	TWA: 270 mg/m³; Ceiling: 550 mg/m³; pSk	-	-	-
Citric acid 77-92-9	-	TWA: 4 mg/m³; dust	-	-	-
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
Glycol 34590-94-8	TWA-VME: 50 ppm; TWA-VME: 308 mg/m³; dSk	TWA-AGW; 50 ppm (exposure factor 1); TWA-AGW; 310 mg/m³ (exposur e factor 1);	TWA-MAK: 50 ppm; I(1); TWA-MAK: 310 mg/m³; I(1); Peak: 50 ppm; Peak: 310 mg/m³;	TWA: 100 ppm; TWA: 600 mg/m³; STEL: 150 ppm; STEL: 900 mg/m³; pSk	TWA-AK: 308 mg/m³; TWA-AK: 50 ppm;
Monoisopropanol amine 78-96-6	-	TWA-AGW; 2 ppm (exposure factor 2); TWA-AGW; 5.8 mg/m³ (exposure factor 2);	-	-	-
Citric acid 77-92-9	-	TWA-AGW; 2 mg/m³ (exposure factor 2); inhalable fraction	TWA-MAK: 2 mg/m³; I(2);inhalable fraction Peak: 4 mg/m³; respirable fraction	-	-
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
Glycol 34590-94-8	TWA: 50 ppm; TWA: 308 mg/m³;	TWA: 50 ppm; TWA: 308 mg/m³;	TWA: 100 ppm; TWA: 606 mg/m³;	TWA: 50 ppm; TWA: 308 mg/m³;	TWA-IPRD: 300 mg/m³;

	STEL: 150 ppm (calculated); STEL: 924 mg/m³ (calculated); pSk	pSk	STEL (REL): 150 ppm; STEL (REL): 909 mg/m³; pSk	pSk	TWA-IPRD: 50 ppm; STEL-TPRD: 450 mg/m³; STEL-TPRD: 75 ppm; Sk
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
Glycol 34590-94-8	TWA: 308 mg/m³; TWA: 50 ppm; pSk	TWA: 50 ppm; TWA: 308 mg/m³; pSk	TWA: 48.7 ppm; TWA: 300 mg/m³;	TWA: 50 ppm; TWA: 300 mg/m³; STEL: 75 ppm (value calculated); STEL: 375 mg/m³ (value calculated); Sk	TWA-NDS: 240 mg/m³; STEL-NDSCh: 480 mg/m³; Sk
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
Glycol 34590-94-8	TWA (VLE-MP): 50 ppm; TWA (VLE-MP): 308 mg/m³; STEL (VLE-CD): 150 ppm; pSk	TWA: 50 ppm; TWA: 308 mg/m³; Sk	TWA: 50 ppm; TWA: 308 mg/m³; pSk	TWA: 50 ppm; TWA: 308 mg/m³; STEL: 50 ppm; STEL: 308 mg/m³; pSk	TWA-(VLA-ED): 50 ppm; TWA-(VLA-ED): 308 mg/m³; pSk
Monoisopropanol amine 78-96-6	-	-	-	TWA: 5.8 mg/m³; TWA: 2 ppm; STEL: 4 ppm; STEL: 11.6 mg/m³;	-

Chemical name	Sweden	Switzerland	United Kingdom
Glycol 34590-94-8	TLV-NGV: 50 ppm; TLV-NGV: 300 mg/m³; STEL (Vägledande KGV): 75 ppm; STEL (Vägledande KGV): 450 mg/m³; Sk	TWA-MAK: 50 ppm; aerosol, vapour TWA-MAK: 300 mg/m³; aerosol, vapour STEL-KZGW: 50 ppm; aerosol, vapour STEL-KZGW: 300 mg/m³; aerosol, vapour	TWA: 50 ppm; TWA: 308 mg/m³; STEL: 150 ppm; STEL: 924 mg/m³; pSk
Citric acid 77-92-9	-	TWA-MAK: 2 mg/m³; inhalable dust STEL-KZGW: 4 mg/m³; inhalable dust	-
Sodium polyacrylate 9003-04-7	-	S	-

Biological occupational exposure limits
This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
Glycol 34590-94-8	-	283 mg/kg bw/day [4] [6]	308 mg/m³ [4] [6]
1-Butoxy-2-propanol 5131-66-8	-	52 mg/kg bw/day [4] [6] 50 % in mixture (weight basis) [5] [6] 50 % in mixture (weight basis) [5] [7]	147 mg/m³ [4] [6]
Monoisopropanol amine	-	-	3.6 mg/m³ [4] [6]

Chemical name	Oral	Dermal	Inhalation
78-96-6			

Notes
[4] Systemic health effects.
[5] Local health effects.
[6] Long term.
[7] Short term.

Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
Glycol 34590-94-8	36 mg/kg bw/day [4] [6]	-	37.2 mg/m³ [4] [6]
1-Butoxy-2-propanol 5131-66-8	12.5 mg/kg bw/day [4] [6]	50 % in mixture (weight basis) [5] [6] 50 % in mixture (weight basis) [5] [7]	43 mg/m³ [4] [6]
Monoisopropanol amine 78-96-6	0.28 mg/kg bw/day [4] [6]	0.51 mg/kg bw/day [4] [6] 0.51 mg/kg bw/day [4] [7]	0.88 mg/m³ [4] [6] 0.88 mg/m³ [4] [7]

Notes
[4] Systemic health effects.
[5] Local health effects.
[6] Long term.
[7] Short term.

Predicted No Effect Concentration (PNEC)

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
Glycol 34590-94-8	19 mg/L	190 mg/L	1.9 mg/L	-	-
1-Butoxy-2-propanol 5131-66-8	0.525 mg/L	5.25 mg/L	0.0525 mg/L	-	-
Monoisopropanol amine 78-96-6	0.0323 mg/L	0.323 mg/L	0.00323 mg/L	-	-

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
Glycol 34590-94-8	70.2 mg/kg sediment dw	7.02 mg/kg sediment dw	4168 mg/L	2.74 mg/kg soil dw	-
1-Butoxy-2-propanol 5131-66-8	2.36 mg/kg sediment dw	0.236 mg/kg sediment dw	10 mg/L	0.16 mg/kg soil dw	-
Monoisopropanol amine 78-96-6	0.226 mg/kg sediment dw	0.0226 mg/kg sediment dw	3.3 mg/L	0.0262 mg/kg soil dw	-

8.2. Exposure controls

Engineering controls Showers
Eyewash stations
Ventilation systems.

Personal protective equipment

Eye/face protection	Eye protection must conform to standard EN 166. Tight sealing safety goggles.
Hand protection	Chemical resistant gloves. Gloves must conform to standard EN 374. Wear suitable gloves. Impervious gloves.
Skin and body protection	Wear suitable protective clothing. Long sleeved clothing.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
Environmental exposure controls	Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	
Physical state	Liquid
Colour	Clear liquid
Odour	No information available
Odour threshold	No information available

Property	**Values**	**Remarks • Method**
Melting point / freezing point		No data available
Boiling point or initial boiling point and boiling range		No data available
Flammability		No data available
Lower and upper explosion limit/flammability limit		
Upper explosion limit		No data available
Lower explosion limit		No data available
Flash point	> 200 °C	
Autoignition temperature		No data available
Decomposition temperature		No data available
SADT (°C)		No data available
pH	7	
pH (as aqueous solution)		No data available
Kinematic viscosity		No data available
Dynamic viscosity		No data available
Water solubility	Soluble in water	
Solubility		No data available
Partition coefficient n-octanol/water (log value)		No data available
Vapour pressure		No data available
Density and/or relative density		No data available
Bulk density		No data available
Liquid Density		No data available
Relative vapour density		No data available
Particle characteristics		
Particle Size		No data available
Particle Size Distribution		No data available

9.2. Other information

Molecular weight	No information available
VOC content	38%
Softening point	No information available

9.2.1. Information with regards to physical hazard classes

Explosives

Explosive properties	No information available
Oxidising properties	No information available

9.2.2. Other safety characteristics

No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity None under normal use conditions.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.
Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

10.5. Incompatible materials

Incompatible materials Strong acids. Strong bases. Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

SECTION 11: Toxicological information

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

Information on likely routes of exposure

Product Information

Inhalation	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.
Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye damage. May cause irreversible damage to eyes.
Skin contact	Specific test data for the substance or mixture is not available. Causes skin irritation. (based on components).
Ingestion	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Redness. Burning. May cause blindness. May cause redness and tearing of the eyes.

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

Numerical measures of toxicity
The following ATE values have been calculated for the mixture:

ATEmix (oral)	14,706.00 mg/kg
ATEmix (dermal)	14,379.10 mg/kg

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Glycol	= 5.35 g/kg (Rat)	= 9500 mg/kg (Rabbit)	-
1-Butoxy-2-propanol	= 3300 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
Monoisopropanol amine	= 1715 mg/kg (Rat)	-	-
Citric acid	= 3 g/kg (Rat)	> 2000 mg/kg (Rat)	-
Sodium polyacrylate	> 40 g/kg (Rat)	-	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation On basis of test data: Classification based on data available for ingredients. Causes skin irritation.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes burns. Causes serious eye damage.

Respiratory or 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

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties Based on available data, the classification criteria are not met

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Glycol 34590-94-8	-	LC50: >10000mg/L (96h, Pimephales promelas)	-	LC50: =1919mg/L (48h, Daphnia magna)
Monoisopropanol amine 78-96-6	EC50: =23mg/L (72h, Desmodesmus subspicatus)	LC50: 2390 - 2650mg/L (96h, Pimephales promelas)	-	EC50: =108.82mg/L (48h, Daphnia magna Straus)
Citric acid 77-92-9	-	LC50: =1516mg/L (96h, Lepomis macrochirus)	-	-

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation

Component Information

Chemical name	Partition coefficient
Glycol	0.35
1-Butoxy-2-propanol	1.2
Monoisopropanol amine	-0.94
Citric acid	-1.72

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment Based on available data, the classification criteria are not met.

Chemical name	PBT and vPvB assessment
Glycol 34590-94-8	Not PBT/vPvB
1-Butoxy-2-propanol 5131-66-8	Not PBT/vPvB
Monoisopropanol amine 78-96-6	Not PBT/vPvB
Citric acid 77-92-9	Not PBT/vPvB

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

Other adverse effects No information available.

PMT or vPvM properties Based on available data, the classification criteria are not met.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

Waste codes / waste designations according to EWC / AVV According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: Transport information

IATA Not regulated
14.1 UN number or ID number Not regulated
14.2
14.3 Transport hazard class(es) Not regulated
14.4 Packing group Not regulated
14.5 Environmental hazards Not applicable
14.6 Special precautions for user
Special Provisions None

IMDG Not regulated
14.1 UN number or ID number Not regulated
14.2
14.3 Transport hazard class(es) Not regulated
14.4 Packing group Not regulated
14.5 Environmental hazards Not applicable
Marine pollutant indicator NP
14.6 Special precautions for user
Special Provisions None
14.7 Maritime transport in bulk according to IMO instruments No information available

RID Not regulated
14.1 UN number or ID number Not regulated
14.2 UN proper shipping name Not regulated
14.3 Transport hazard class(es) Not regulated
14.4 Packing group Not applicable
14.5 Environmental hazards Not applicable
14.6 Special precautions for user
Special Provisions None

ADR Not regulated
14.1 UN number or ID number Not regulated
14.2 UN proper shipping name Not regulated
14.3 Transport hazard class(es) Not regulated
14.4 Packing group Not regulated
14.5 Environmental hazards Not applicable
14.6 Special precautions for user
Special Provisions None

ADN Not regulated
14.1 UN number or ID number Not regulated

14.2 UN proper shipping name Not regulated
14.3 Transport hazard class(es) Not regulated
14.4 Packing group Not applicable
14.5 Environmental hazard Not applicable
14.6 Special precautions for user
Special Provisions None

SECTION 15: Regulatory information

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

National regulations

France
Occupational Illnesses (R-463-3, France)

Chemical name	French RG number
Glycol - 34590-94-8	RG 84
1-Butoxy-2-propanol - 5131-66-8	RG 84

Germany
Water hazard class (WGK) slightly hazardous to water (WGK 1)
Chemical Prohibition Ordinance (ChemVerbotsV) Not applicable

TRGS 905 Not applicable

Switzerland
Ordinance on the Incentive Tax on Volatile Organic Compounds (OVOC) SR 814.018 Group I
Storage of Hazardous Material SC 8
WPO (GSchV) SR 814.201; WPA (GSchG) SR 814.20 Not applicable
Major Accidents Ordinance SR 814.012 Not applicable

European Union
Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorisations and/or restrictions on use:
This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorisation per REACH Annex XIV
1-Butoxy-2-propanol - 5131-66-8	75	-
Monoisopropanol amine - 78-96-6	75	-
Citric acid - 77-92-9	75	-

Persistent Organic Pollutants
Not applicable

Ozone-depleting substances (ODS) regulation (EC) 2024/590
Not applicable.

Biocidal Products Regulation (EU) No 528/2012 (BPR)

Chemical name	Biocidal Products Regulation (EU) No 528/2012 (BPR)
Citric acid - 77-92-9	Product-type 2: Disinfectants and algaecides not intended for direct application to humans or animals Product-type 6:

	Preservatives for products during storage

Explosives Precursors Marketing and Use (2019/1148)
Not applicable

International Inventories
Contact supplier for inventory compliance status

15.2. Chemical safety assessment

Chemical Safety Report No information available

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of any hazard and/or precautionary statements referred to under Sections 2-15
H314 - Causes severe skin burns and eye damage
H315 - Causes skin irritation
H318 - Causes serious eye damage
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation
P264 - Wash face, hands and any exposed skin thoroughly after handling
P280 - Wear protective gloves, protective clothing, eye protection and face protection
P302 + P352 - IF ON SKIN: Wash with plenty of water and soap
P321 - Specific treatment (see supplemental first aid instructions on this label)
P332 + P313 - If skin irritation occurs: Get medical advice/attention
P362 + P364 - Take off contaminated clothing and wash it before reuse
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 or doctor

Legend

ACGIH	American Conference of Governmental Industrial Hygienists
AIDII	Italian Association of Industrial Hygienists
ADN	Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Europe)
ADR	Agreement concerning the International Carriage of Dangerous Goods by Road (Europe)
AIIC	Australian Inventory of Industrial Chemicals
ATE	Acute Toxicity Estimate
ASTM	American Society for the Testing of Materials
bar	Biological Reference Values for Chemical Compounds in the Work Area
BAT	Biological tolerance values for occupational exposure
BEL	Biological exposure limits
bw	Body weight
Ceiling	Maximum limit value
CLP	Classification, Labelling and Packaging Regulation; Regulation (EC) No 1272/2008
CMR	Carcinogen, Mutagen or Reproductive Toxicant
DFG	German Research Foundation
DOT	Department of Transportation (United States)
DSL	Domestic Substances List (Canada)
ECHA	European Chemicals Agency
EC Number	European Community number
EmS	Emergency Schedule

ENCS	Existing and New Chemical Substances (Japan)
EPA	Environmental Protection Agency
EWC	European Waste Codes
GHS	Globally Harmonized System
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IBC	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO	International Civil Aviation Organisation
IECSC	Inventory of Existing Chemical Substances in China
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Organisation for Standardisation
KECI	Korean Existing Chemicals Inventory
LC50	Lethal Concentration to 50% of a test population
LD50	Lethal Dose to 50% of a test population (Median Lethal Dose)
MAL	Measuring Technical Hygienic Air Needs
MARPOL	International Convention for the Prevention of Pollution from Ships
MDLPS	Ministry of Labour and Social Policy
n.o.s.	Not Otherwise Specified
NOAEC	No Observed Adverse Effect Concentration
NOAEL	No Observed Adverse Effect Level
NOELR	No Observable Effect Loading Rate
NZIoC	New Zealand Inventory of Chemicals
OECD	Organization for Economic Cooperation and Development
OEL	Occupational exposure limits
PBT	Persistent, Bioaccumulative and Toxic substance
PICCS	Philippines Inventory of Chemicals and Chemical Substances
PMT	Persistent, Mobile and Toxic
PPE	Personal protective equipment
QSAR	Quantitative Structure Activity Relationship
REACH	Registration, Evaluation, Authorisation, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)
RID	Agreement concerning the International Carriage of Dangerous Goods by Rail (Europe)
SADT	Self-Accelerating Decomposition Temperature
SAR	Structure-activity relationship
SDS	Safety Data Sheet
SL	Surface Limit
STEL	Short Term Exposure Limit
STOT RE	Specific target organ toxicity - Repeated exposure
STOT SE	Specific target organ toxicity - Single exposure
SVHC	Substance of very high concern
TCSI	Taiwan Chemical Substance Inventory
TDG	Transport of Dangerous Goods (Canada)
TRGS	Technical Rule for Hazardous Substances
TSCA	Toxic Substances Control Act (United States)
TWA	Time-Weighted Average
UN	United Nations
VOC	Volatile organic compounds
vPvB	Very Persistent and Very Bioaccumulative
vPvM	Very Persistent and Very Mobile
As	Allergenic substance
DS	Dermal Sensitizer
Ot	Ototoxicant
pOt	Ototoxicant - potential to cause hearing disorders
PS	Photosensitiser

RS	Respiratory Sensitiser
S	Sensitiser
poS	Sensitizer - capable of causing occupational asthma
Sa	Simple asphyxiant
Sd	Skin designation
pSd	Skin designation - potential for cutaneous absorption
Sdv	Skin designation - vacated
Sk	Skin notation
dSk	Skin notation - danger of cutaneous absorption
pSk	Skin notation - potential for cutaneous absorption

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	On basis of test data
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Chronic aquatic toxicity	Calculation method
Acute aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

Key literature references and sources for data used to compile the SDS
Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)
European Chemicals Agency (ECHA) (ECHA_API)
Environmental Protection Agency
Acute Exposure Guideline Level(s) (AEGL(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
Japan GHS Classification
Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine’s PubMed database (NLM PUBMED)
U.S. National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme
Organisation for Economic Co-operation and Development Screening Information Data Set
World Health Organization

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End of Safety Data Sheet