

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)	2101; 2101-1; 2105; 2115; 2155
Product Name	Solujet
Unique Formula Identifier (UFI)	7M90-00YY-500Y-5KC3
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 sa	ifety data sheet
<u>Supplier</u> Alconox Inc. 30 Glenn St., Suite 309 White Plains, NY 10603 USA 914-948-4040	
For further information, please con	
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)	
Europe	112
SECTION 2: Hazards ident	ification

2.1. Classification of the substance or mixture Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion	Category 1	Sub-category B	- (H314)
Serious eye damage	Category 1	- (H318)	

2.2. Label elements

Contains Potassium hydroxide



Signal word Danger

Hazard statements

H314 - Causes severe skin burns and eye damage.

Precautionary Statements - EU (§28, 1272/2008)

P260 - Do not breathe dust, fume, gas, mist, vapors and spray.

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

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a POISON CENTER or doctor.

P321 - Specific treatment (see information on this label).

Additional information

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This product requires child resistant fastenings if supplied to the general public. This product requires tactile warnings if supplied to the general public.

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]	concentration	M-Factor	M-Factor (long-ter m)	Notes
Potassium hydroxide 1310-58-3	7-13	01-2119487136- 33-XXXX					-	-
Sodium polyacrylate 9003-04-7	1.2	No data available	-	No data available	-	-	-	-
2-Propenoic acid,	0.7	No data	271-865-1	No data available	-	-	-	-

methyl ester, reaction	available			
products with				
2-ethyl-1-hexanamine				
and sodium hydroxide				
68610-44-6				

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 - vapour - mg/L	
			mg/L		
Potassium hydroxide 1310-58-3	284	No data available	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. If breathing has stopped, give artificial respiration. Get medical attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get immediate medical attention.
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get immediate medical attention.
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. 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 me	edical attention and special treatment needed					
Note to doctors	Product is a corrosive material. Use of gastric lavage or emesis is contra-indicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure.					
SECTION 5: Firefighting m	neasures					
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	ne substance or mixture					
Specific hazards arising from the chemical	The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapours.					
Hazardous combustion products	Carbon oxides. Potassium oxides.					
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 rel						

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Attention! Corrosive material. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
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. Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains. Keep out of drains, sewers, ditches and waterways.
6.3. Methods and material for conta	inment 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. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. 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. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.
7.2. Conditions for safe storage, inc	cluding any incompatibilities
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Store locked up. Keep out of the reach of children. Store away from other materials.
Storage class (TRGS 510)	LGK 8A.
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	Bu	Igaria	Croatia
Potassium hydroxide	-	TWA-TMW:	-		2.0 mg/m ³ ;	STEL-KGVI: 2
1310-58-3		2 mg/m ³ ; inhalable			•	mg/m³;
		fraction				-
Chemical name	Cyprus	Czech Republic	Denmark	Es	tonia	Finland
Potassium hydroxide	-	TWA: 1 mg/m ³ ;	STEL: 2 mg/m ³ ;	TWA:	2 mg/m³;	Ceiling: 2 mg/m ³ ;
1310-58-3		Ceiling: 2 mg/m ³ ;				
Chemical name	France	Germany TRGS	Germany DFG	Gr	eece	Hungary
Potassium hydroxide	STEL-VLCT: 2	-	-	TWA:	2 mg/m³;	TWA-AK: 2 mg/m ³ ;
1310-58-3	mg/m³;			STEL:	2 mg/m ³ ;	STEL-CK: 2 mg/m ³ ;
Chemical name	Ireland	Italy MDLPS	Italy AIDII	La	atvia	Lithuania
Potassium hydroxide	STEL: 2 mg/m ³ ;	-	Ceiling: 2 mg/m ³ ;		-	-
1310-58-3						
Chemical name	Luxembourg	Malta	Netherlands	Norway		Poland
Potassium hydroxide	-	-	-	Ceiling	: 2 mg/m³;	TWA-NDS: 0.5
1310-58-3						mg/m³;
						STEL-NDSCh: 1
						mg/m ³ ;
Chemical name	Portugal	Romania	Slovakia	Slo	venia	Spain
Potassium hydroxide	Ceiling (VLE-CM): 2	TWA: 1 mg/m ³ ;	-		-	STEL (VLA-EC): 2
1310-58-3	mg/m³;	STEL: 3 mg/m ³ ;				mg/m ³ ;
Chemical name	Sv	weden	Switzerland	United Kingdom		ited Kingdom
Potassium hydroxide	e TLV-NGV: 1	mg/m ³ ; inhalable	STEL-KZGW: 2 mg	g/m ³ ; STEL: 2 mg/m ³ ;		EL: 2 mg/m ³ ;
1310-58-3		action	inhalable dust			
	STEL (Bindand	de KGV): 2 mg/m ³ ;				

	inhalable fraction		
Sodium polyacrylate 9003-04-7	-	S	-
2-Propenoic acid, methyl ester, reaction products with 2-ethyl-1-hexanamine and sodium hydroxide 68610-44-6	-	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
Potassium hydroxide 1310-58-3	-	-	1 mg/m³ [5] [6]

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

Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
Potassium hydroxide	-	-	1 mg/m³ [5] [6]
1310-58-3			

Notes

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

Predicted No Effect Concentration (PNEC)

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. Face protection shield.
Hand protection	Gloves must conform to standard EN 374. Wear suitable gloves. Impervious gloves.
Skin and body protection	Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.
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

<u>9.1. Information on basic physical a</u>	and chemical properties	
Appearance	Linuial	
Physical state	Liquid	
Colour	Transparent light yellow 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		No data available
and boiling range		
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	200 0	No data available
Decomposition temperature		No data available
SADT (°C)		No data available
pH	12	solution (1 %)
pH (as aqueous solution)	12	No data available
Kinematic viscosity		No data available
Dynamic viscosity		No data available
Water solubility	Soluble in water	NU uata avaliable
	Soluble III water	No data available
Solubility Partition coefficient n-octanol/wate	-	No data available
	r	NU Uala available
(log value)		No data available
Vapour pressure 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	0%	
Softening point	No information available	
0.2.1 Information with records to a	hysical barard alassas	
9.2.1. Information with regards to p	nysical nazaru 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 Sensitivity to static discharge	t None. None.
10.3. Possibility of hazardous reacti	ons
Possibility of hazardous reactions	None under normal processing.
10.4. Conditions to avoid	
Conditions to avoid	Exposure to air or moisture over prolonged periods.
10.5. Incompatible materials	
Incompatible materials	Acids. Bases. Oxidising agent.
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. Corrosive by inhalation. (based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs. Pulmonary edema can be fatal.
Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye damage. (based on components). Corrosive to the eyes and may cause severe damage including blindness. May cause irreversible damage to eyes.
Skin contact	Specific test data for the substance or mixture is not available. Corrosive. (based on components). Causes burns.
Ingestion	Specific test data for the substance or mixture is not available. Causes burns. (based on components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung damage if swallowed. May be fatal if swallowed and enters airways.
Symptoms related to the physical, c	hemical and toxicological characteristics
Symptoms	Redness. Burning. May cause blindness. Coughing and/ or wheezing.
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) 3,775.80 mg/kg

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Potassium hydroxide	= 284 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 severe skin burns and eye damage.	
Serious eye damage/eye irritation	Classification based on data available for ingredients. Causes serious eye damage. Causes burns.	
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		
<u>12.1. Toxicity</u>		
Ecotoxicity		

12.2. Persistence and degradabilit	y

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation

Component Information

Chemical name	Partition coefficient
Potassium hydroxide	0.83
2-Propenoic acid, methyl ester, reaction products with	-0.77
2-ethyl-1-hexanamine and sodium hydroxide	

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
Potassium hydroxide	Not PBT/vPvB
1310-58-3	
2-Propenoic acid, methyl ester, reaction products with	Not PBT/vPvB
2-ethyl-1-hexanamine and sodium hydroxide	
68610-44-6	

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

14.1 UN number or ID number	UN1760
14.2 UN proper shipping name	Corrosive liquid, n.o.s. (Potassium hydroxide)
IATA Technical Name	Potassium hydroxide
14.3 Transport hazard class(es)	8
14.4 Packing group	II

 14.5 Environmental hazards 14.6 Special precautions for user Special Provisions ERG Code Description 	No A3, A803 8L UN1760, Corrosive liquid, n.o.s. (Potassium hydroxide), 8, II
IMDG14.1UN number or ID number14.2UN proper shipping name14.3Transport hazard class(es)14.4Packing group14.5Environmental hazards Marine pollutant indicator14.6Special precautions for user Special Provisions EmS-No. Description14.7Maritime transport in bulk according to IMO instruments	UN1760 CORROSIVE LIQUID, N.O.S. (Potassium hydroxide) 8 II No NP 274 F-A S-B UN1760, CORROSIVE LIQUID, N.O.S. (Potassium hydroxide), 8, II No information available
RID14.1UN number or ID number14.2UN proper shipping name14.3Transport hazard class(es)14.4Packing groupDescription14.5Environmental hazards14.6Special precautions for userSpecial ProvisionsClassification code	UN1760 CORROSIVE LIQUID, N.O.S. (Potassium hydroxide) 8 II UN1760, CORROSIVE LIQUID, N.O.S. (Potassium hydroxide), 8, II No 274 C9
ADR 14.1 UN number or ID number 14.2 UN proper shipping name 14.3 Transport hazard class(es) 14.4 Packing group Description 14.5 Environmental hazards 14.6 Special precautions for user Special Provisions Classification code Tunnel restriction code	UN1760 CORROSIVE LIQUID, N.O.S. (Potassium hydroxide) 8 II UN1760, CORROSIVE LIQUID, N.O.S. (Potassium hydroxide), 8, II No 274 C9 (E)
ADN 14.1 UN number or ID number 14.2 UN proper shipping name 14.3 Transport hazard class(es) 14.4 Packing group Description 14.5 Environmental hazard 14.6 Special precautions for user Special Provisions Classification code Equipment Requirements	UN1760 CORROSIVE LIQUID, N.O.S. (Potassium hydroxide) 8 II UN1760, CORROSIVE LIQUID, N.O.S. (Potassium hydroxide), 8, II No 274 C9 PP, EP

SECTION 15: Regulatory information

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

National regulations

GermanyWater hazard class (WGK)sChemical Prohibition OrdinanceN(ChemVerbotsV)

slightly hazardous to water (WGK 1) Not applicable

TRGS 9	05
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Not applicable

SwitzerlandOrdinance on the Incentive Tax on Volatile Organic Compounds (OVOC) SR 814.018Not applicableStorage of Hazardous MaterialSC 8WPO (GSchV) SR 814.201; WPA (GSchG) SR 814.20Class BMajor Accidents Ordinance SR 814.012Not 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
Potassium hydroxide - 1310-58-3	75	-

Persistent Organic Pollutants

Not applicable

Ozone-depleting substances (ODS) regulation (EC) 2024/590

Not applicable.

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

H302 - Harmful if swallowed

H314 - Causes severe skin burns and eye damage

P260 - Do not breathe dust, fume, gas, mist, vapors and spray

P264 - Wash face, hands and any exposed skin thoroughly after handling

P280 - Wear protective gloves, protective clothing, eye protection and 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

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

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 supplemental first aid instructions on this label)

P363 - Wash contaminated clothing before reuse

P405 - Store locked up

P501 - Dispose of contents and container in accordance with local, regional, national, and international regulations as applicable

Legend

Logona		
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	
ΙΑΤΑ	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 **Issuing Date** 25-Mar-2024

Revision date	25-Mar-2024
Revision Note	Initial Release.

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End of Safety Data Sheet