

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Total Hardness No.1 Liquid

Revision date 04-17-2025

Revision Number 1

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

1.1. Product identifier

Product Code(s) POL20TH1, FW10TH1

Product Name Total Hardness No.1 Liquid

Unique Formula Identifier (UFI) JCNV-83A2-7125-TMS0

 Pure substance/mixture
 Mixture

 Contains 1-Piperazineethanesulfonic acid, 4-(2-hydroxyethyl)-, Sodium hydroxide, Ethylene glycol

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

Recommended use	Reagent for water analysis
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Uses advised against Others

1.3. Details of the supplier of the safety data sheet

Manufacturer

Water-i.d. GmbH Daimlerstr. 20 76344 Eggenstein, Germany Tel.: +49 (0) 721 78 20 29 0, Fax: +49 (0) 721 78 20 29 11 Website: www.water-id.com EHS / Compliance: lab@water-id.com

1.4. Emergency telephone number

Emergency Telephone

+44 1235 239670 English, Albanian, Bosnian, Bulgarian, Croatian, Czech, Danish, Dutch, Finnish, French, German, Greek, Hungarian, Italian, Latvian, Lithuanian, Norwegian, Polish, Portuguese, Romanian, Russian, Serbian, Slovak, Spanish, Swedish, Turkish and Ukrainian.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) NO 1272/2008	
Acute toxicity - Oral	Category 4 - (H302)
Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Specific target organ toxicity — single exposure	Category 2 - (H373)

2.2. Label elements

Contains 1-Piperazineethanesulfonic acid, 4-(2-hydroxyethyl)-, Sodium hydroxide, Ethylene glycol



Warning

Hazard statements

H302 - Harmful if swallowed

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H373 - May cause damage to organs through prolonged or repeated exposure

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

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

P270 - Do not eat, drink or smoke when using this product

P280 - Wear protective gloves, eye protection and face protection

P337 + P313 - If eye irritation persists: Get medical advice/attention

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

Additional information

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

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	Weight-%	REACH registration number	EC No. (Index No.)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Ethylene glycol 107-21-1	30-50	No data available	203-473-3	Acute Tox. 4 (H302) STOT RE 2 (H373)			
Sodium hydroxide 1310-73-2	<1.5	No data available	215-185-5	Skin Corr. 1A (H314)			

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
Ethylene glycol 107-21-1	4700	10600	3.75		
Sodium hydroxide 1310-73-2	325	1350			

CECTION 4. Einet ald m

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	Show this safety data sheet to the doctor in attendance.				
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur.				
Eye contact	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 eve wide open				

while rinsing. Do not rub affected area. Get medical attention if irritation develops and

	persists.
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	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. 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	May cause redness and tearing of the eyes. Burning sensation.
4.3. Indication of any immediate me	edical 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.			
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.			

Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.
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5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the No information available. chemical

5.3. Advice for firefighters

Special protective equipment and
precautions for fire-fightersFirefighters 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. Ensure adequate ventilation. Use personal protective equipment as required.

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.
6.3. Methods and material for contai	nment 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	Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing.
7.2. Conditions for safe storage, inc	cluding any incompatibilities
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Ethylene glycol	TWA: 20 ppm	TWA: 10 ppm	*	STEL: 40 ppm	TWA: 20 ppm
107-21-1	TWA: 52 mg/m ³	TWA: 26 mg/m ³		STEL: 104 mg/m ³	TWA: 52 mg/m ³
	STEL: 40 ppm	STEL 20 ppm		TWA: 52 mg/m ³	STEL: 40 ppm
	STEL: 104 mg/m ³	STEL 52 mg/m ³		TWA: 20 ppm	STEL: 104 mg/m ³
	*	H* -		K*	*
Sodium hydroxide	-	TWA: 2 mg/m ³	-	TWA: 2.0 mg/m ³	STEL: 2 mg/m ³
1310-73-2		STEL 4 mg/m ³			
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Ethylene glycol	*	TWA: 50 mg/m ³	TWA: 10 ppm	TWA: 20 ppm	TWA: 20 ppm
107-21-1	STEL: 40 ppm	Ceiling: 100 mg/m ³	TWA: 26 mg/m ³	TWA: 52 mg/m ³	TWA: 50 mg/m ³
	STEL: 104 mg/m ³	*	TWA: 10 mg/m ³	STEL: 40 ppm	STEL: 40 ppm

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		/		I			
		/A: 20 ppm A: 52 mg/m ³		H*	STEL: 104 mg/m ³ A*		STEL: 100 mg/m ³ iho*
Sodium hydroxide 1310-73-2		-	TWA: 1 mg/m ³ Ceiling: 2 mg/m ³	Ceiling: 2 mg/m ³	TWA: 1 mg/m ³ STEL: 2 mg/m ³		Ceiling: 2 mg/m ³
Chemical name		France	Germany TRGS	Germany DFG		reece	Hungary
Ethylene glycol 107-21-1	TW/ ST	/A: 20 ppm A: 52 mg/m ³ EL: 40 ppm _: 104 mg/m ³	TWA: 10 ppm TWA: 26 mg/m ³	TWA: 10 ppm TWA: 26 mg/m ³ Peak: 20 ppm Peak: 52 mg/m ³ *	TWA: 1 STEL	50 ppm 25 mg/m ³ : 50 ppm I25 mg/m ³	TWA: 52 mg/m ³ STEL: 104 mg/m ³ *
Sodium hydroxide 1310-73-2	TW	'A: 2 mg/m ³	-	-		2 mg/m ³ 2 mg/m ³	TWA: 1 mg/m ³ STEL: 2 mg/m ³
Chemical name		Ireland	Italy MDLPS	Italy AIDII	La	atvia	Lithuania
Ethylene glycol 107-21-1	TW/ ST	/A: 20 ppm A: 52 mg/m ³ EL: 40 ppm _: 104 mg/m ³ Sk*	TWA: 20 ppm TWA: 52 mg/m ³ STEL: 40 ppm STEL: 104 mg/m ³ pelle*	TWA: 25 ppm STEL: 50 ppm STEL: 10 mg/m ³	TWA: STEL	20 ppm 52 mg/m ³ : 40 ppm 104 mg/m ³ *	* TWA: 10 ppm TWA: 25 mg/m ³ STEL: 20 ppm STEL: 50 mg/m ³
Sodium hydroxide 1310-73-2	STE	EL: 2 mg/m ³	-	Ceiling: 2 mg/m ³	TWA: 0.5 mg/m ³		Ceiling: 2 mg/m ³
Chemical name	Lu	ixembourg	Malta	Netherlands	Norway		Poland
Ethylene glycol 107-21-1	STEI TW	* EL: 40 ppm _: 104 mg/m ³ /A: 20 ppm A: 52 mg/m ³	* STEL: 40 ppm STEL: 104 mg/m ³ TWA: 20 ppm TWA: 52 mg/m ³	TWA: 52 mg/m ³ TWA: 10 mg/m ³ STEL: 40 ppm STEL: 104 mg/m ³ H*		104 mg/m ³ : 40 ppm	STEL: 50 mg/m ³ TWA: 15 mg/m ³
Sodium hydroxide 1310-73-2		-	-	-		-	STEL: 1 mg/m ³ TWA: 0.5 mg/m ³
Chemical name		Portugal	Romania	Slovakia	Slo	venia	Spain
Ethylene glycol 107-21-1	TW/ ST STEI Ceilin	/A: 20 ppm A: 52 mg/m ³ EL: 40 ppm _: 104 mg/m ³ g: 100 mg/m ³	TWA: 20 ppm TWA: 52 mg/m ³ STEL: 40 ppm STEL: 104 mg/m ³ *	TWA: 20 ppm TWA: 52 mg/m ³ * Ceiling: 104 mg/m ³	TWA: STEL: S	20 ppm 52 mg/m ³ STEL ppm TEL mg/m ³ *	TWA: 20 ppm TWA: 52 mg/m ³ STEL: 40 ppm STEL: 104 mg/m ³ vía dérmica*
Sodium hydroxide 1310-73-2	Ceili	ng: 2 mg/m ³	TWA: 1 mg/m ³ STEL: 3 mg/m ³	TWA: 2 mg/m ³		-	STEL: 2 mg/m ³
Chemical name		Sv	veden	Switzerland		Uni	ted Kingdom
Ethylene glycol 107-21-1		NGV NGV: Bindande	: 10 ppm 25 mg/m ³ KGV: 40 ppm GV: 104 mg/m ³	TWA: 10 ppm TWA: 26 mg/m STEL: 20 ppm STEL: 52 mg/m H*	TWA: 10 mg/m ³ TWA: 20 ppm TWA: 52 mg/m ³ STEL: 40 ppm STEL: 104 mg/m ³ STEL: 30 mg/m ³		'A: 10 mg/m ³ VA: 20 ppm 'A: 52 mg/m ³ 'EL: 40 ppm L: 104 mg/m ³
Sodium hydroxide 1310-73-2			1 mg/m ³ KGV: 2 mg/m ³	TWA: 2 mg/m ³ STEL: 2 mg/m ³	3 STEL: 2 mg/m ³		_

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) No information available. **Predicted No Effect Concentration** (PNEC)

8.2. Exposure controls

Personal protective equipment

Eye/face protection

If splashes are likely to occur, wear safety glasses with side-shields.

Hand protection	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.
General hygiene considerations	Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing.
Environmental exposure controls	No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid	
Appearance	aqueous solution	
Colour	red brown	
Odour	Odourless.	
Odour threshold		
Property	<u>Values</u>	Remarks • Method
Melting point / freezing point	No data available	None known
Boiling point / boiling range	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive	No data available	
limits		
Lower flammability or explosive	No data available	
limits		
Flash point	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature		None known
рН	8.10	None known
pH (as aqueous solution)	No data available	No information available
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Water solubility	No data available	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Vapour pressure	No data available	None known
Relative density	No data available	None known
Bulk density	No data available	
Liquid Density	No data available	
Relative vapour density	No data available	None known
Particle characteristics		
Particle Size		
Particle Size Distribution		

9.2. Other information

9.2.1. Information with regards to physical hazard classes Not applicable

9.2.2. Other safety characteristics

SECTION 10: Stability and reactivity

10.1. Reactivity	
Reactivity	No information available.
10.2. Chemical stability	
Stability	Stable under normal conditions.
Explosion data Sensitivity to mechanical impac Sensitivity to static discharge	t None. None.
10.3. Possibility of hazardous reaction	ions
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 pro	ducts
Hazardous decomposition products	s 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 irritation. (based on components). May cause redness, itching, and pain.
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. Harmful if swallowed. (based on components).
Symptoms related to the physical,	chemical and toxicological characteristics
Symptoms	Redness. May cause redness and tearing of the eyes.
Numerical measures of toxicity	
Acute toxicity	
The following ATE values have bee ATEmix (oral) ATEmix (dermal)	en calculated for the mixture 1,049.20 mg/kg 6,458.60 mg/kg
Unknown acute toxicity	

4.09 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ethylene glycol	= 4700 mg/kg (Rat)	= 10600 mg/kg (Rat)	> 2.5 mg/L (Rat)6 h
Sodium hydroxide	= 325 mg/kg (Rat)	= 1350 mg/kg (Rabbit)	

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

Skin corrosion/irritation	Classification based on data available for ingredients. Irritating to skin.
Serious eye damage/eye irritation	Classification based on data available for ingredients. Causes serious eye irritation.
Respiratory or skin sensitisation	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration hazard	No information available.
11.2. Information on other hazards	
11.2.1. Endocrine disrupting prope	erties
Endocrine disrupting properties	

11.2.2. Other information

Other adverse effects

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

Unknown aquatic toxicity Contains 0 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Ethylene glycol	EC50: 6500 - 13000mg/L	LC50: 14 - 18mL/L (96h,	-	EC50: =46300mg/L (48h,
	(96h, Pseudokirchneriella	Oncorhynchus mykiss)		Daphnia magna)

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	subcapitata)	LC50: 40000 -		
		60000mg/L (96h,		
		Pimephales promelas)		
		LC50: =16000mg/L (96h,		
		Poecilia reticulata)		
		LC50: =27540mg/L (96h,		
		Lepomis macrochirus)		
		LC50: =40761mg/L (96h,		
		Oncorhynchus mykiss)		
		LC50: =41000mg/L (96h,		
		Oncorhynchus mykiss)		
Sodium hydroxide	-	LC50: =45.4mg/L (96h,	-	-
		Oncorhynchus mykiss)		

12.2. Persistence and degradability

Persistence and degradability

12.3. Bioaccumulative potential

Bioaccumulation

There is no data for this product.

Component Information

Chemical name	Partition coefficient
Ethylene glycol	-1.36

12.4. Mobility in soil

Mobility in soil

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment

Chemical name	PBT and vPvB assessment
Ethylene glycol	The substance is not PBT / vPvB PBT assessment does
	not apply
Sodium hydroxide	The substance is not PBT / vPvB PBT assessment does
	not apply

12.6. Endocrine disrupting properties

Endocrine disrupting properties

12.7. Other adverse effects

No information available.

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.

SECTION 14: Transport information

IATA

14.1 UN number or ID number 14.2	Not regulated
 14.3 Transport hazard class(es) 14.4 Packing group 14.5 Environmental hazards 14.6 Special precautions for user 	Not regulated Not regulated Not applicable
Special Provisions	None
IMDG	
14.1 UN number or ID number 14.2	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Marine pollutant 14.6 Special precautions for user	Not applicable
Special Provisions	None
14.7 Maritime transport in bulk	
according to IMO instruments	
RID	
14.1 UN number or ID number	Not regulated
14.1 UN number or ID number 14.2	Ũ
14.1UN number or ID number14.214.314.3Transport hazard class(es)14.4Packing group	Not regulated Not regulated
14.1UN number or ID number14.214.314.314.4Packing group14.5Environmental hazards	Not regulated
14.1UN number or ID number14.214.314.3Transport hazard class(es)14.4Packing group	Not regulated Not regulated
 14.1 UN number or ID number 14.2 14.3 Transport hazard class(es) 14.4 Packing group 14.5 Environmental hazards 14.6 Special precautions for user Special Provisions 	Not regulated Not regulated Not applicable
14.1UN number or ID number14.214.314.314.4Packing group14.5Environmental hazards14.6Special precautions for user	Not regulated Not regulated Not applicable
14.1UN number or ID number14.214.314.4Packing group14.5Environmental hazards14.6Special precautions for user Special ProvisionsADR 14.114.1UN number or ID number 14.2	Not regulated Not regulated Not applicable None Not regulated
14.1UN number or ID number14.214.314.4Packing group14.5Environmental hazards14.6Special precautions for user Special ProvisionsADR 14.114.1UN number or ID number 14.214.3Transport hazard class(es)	Not regulated Not regulated Not applicable None Not regulated Not regulated
14.1UN number or ID number14.214.314.4Packing group14.5Environmental hazards14.6Special precautions for user Special ProvisionsADR 14.114.1UN number or ID number 14.2	Not regulated Not regulated Not applicable None Not regulated
 14.1 UN number or ID number 14.2 14.3 Transport hazard class(es) 14.4 Packing group 14.5 Environmental hazards 14.6 Special precautions for user Special Provisions <u>ADR</u> 14.1 UN number or ID number 14.2 14.3 Transport hazard class(es) 14.4 Packing group 14.5 Environmental hazards 14.6 Special precautions for user	Not regulated Not applicable None Not regulated Not regulated Not regulated Not regulated Not applicable
 14.1 UN number or ID number 14.2 14.3 Transport hazard class(es) 14.4 Packing group 14.5 Environmental hazards 14.6 Special precautions for user Special Provisions <u>ADR</u> 14.1 UN number or ID number 14.2 14.3 Transport hazard class(es) 14.4 Packing group 14.5 Environmental hazards	Not regulated Not applicable None Not regulated Not regulated Not regulated

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)

French RG number	Title
RG 84	-

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 does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Persistent Organic Pollutants

Not applicable

Ozone-depleting substances (ODS) Regulation (EU) 2024/590 Not applicable

International Inventories	
TSCA	Complies
DSL/NDSL	Does not comply
EINECS/ELINCS	Does not comply
ENCS	Does not comply
IECSC	Complies
KECL	Does not comply
PICCS	Complies
AICS	Complies

Legend:

 TSCA
 - United States Toxic Substances Control Act Section 8(b) Inventory

 DSL/NDSL
 - Canadian Domestic Substances List/Non-Domestic Substances List

 EINECS/ELINCS
 - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

 ENCS
 - Japan Existing and New Chemical Substances

 IECSC
 - China Inventory of Existing Chemical Substances

 KECL
 - Korean Existing and Evaluated Chemical Substances

 PICCS
 - Philippines Inventory of Chemicals and Chemical Substances

 AICS
 - Australian Inventory of Chemical Substances

15.2. Chemical safety assessment

Chemical Safety Report

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

Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend Section 8: Exposure controls/personal protection

TWĂ	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

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	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method

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Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic 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) EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s)) U.S. Environmental Protection Agency Federal Insecticide, Fundicide, 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) 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

Revision date 04-17-2025

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet