

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 11-18-2024 **Revision Number** 1

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

1.1. Product identifier

POL20TH1, PL20TH1, FW10TH1 **Product Code(s)**

Product Name Total Hardness No.1 Liquid

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

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

Others Uses advised against

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

United Kingdom	+44 1235 239670
	English

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



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

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			

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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.

Eve 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 eye 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 medical attention and special treatment needed

Treat symptomatically. Note to doctors

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

surrounding environment.

CAUTION: Use of water spray when fighting fire may be inefficient. Large Fire

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

No information available.

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. Ensure adequate ventilation. Use personal

protective equipment as required.

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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 containment and cleaning up

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

Methods for cleaning upTake 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 sectionsSee 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, including 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

				•			
		/A: 20 ppm A: 52 mg/m³		H*		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		1 mg/m ³ 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/m³ Peak: 20 ppm Peak: 52 mg/m³	TWA: 1 STEL	50 ppm 25 mg/m ³ : 50 ppm 125 mg/m ³	TWA: 52 mg/m³ STEL: 104 mg/m³ *
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		atvia	Lithuania
Ethylene glycol 107-21-1	TW/	/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:	20 ppm 52 mg/m ³ : 40 ppm 104 mg/m ³	* TWA: 10 ppm TWA: 25 mg/m³ STEL: 20 ppm STEL: 50 mg/m³
Sodium hydroxide 1310-73-2	STE	L: 2 mg/m ³	-	Ceiling: 2 mg/m ³	TWA: (0.5 mg/m ³	Ceiling: 2 mg/m ³
Chemical name	Lu	xembourg	Malta	Netherlands	No	orway	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/m³ TWA: 15 mg/m³
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/ STI 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/m³ STEL: 40 ppm STEL: 104 mg/m³ *	TWA: 20 ppm TWA: 52 mg/m³ * Ceiling: 104 mg/m³	TWA: 20 ppm TWA: 20 p TWA: 52 mg/m³ TWA: 52 m STEL: STEL ppm STEL: 40 p STEL: STEL mg/m³ STEL: 104 n		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/m³	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		NGV	: 10 ppm	TWA: 10 ppm			'A: 10 mg/m ³
107-21-1	NGV: 16 ppm NGV: 25 mg/m ³ Bindande KGV: 40 ppr Bindande KGV: 104 mg/		25 mg/m ³ KGV: 40 ppm	TWA: 26 mg/m STEL: 20 ppm STEL: 52 mg/m H*	3	TV TW ST STE	VA: 20 ppm 'A: 52 mg/m ³ 'EL: 40 ppm L: 104 mg/m ³ EL: 30 mg/m ³
Sodium hydroxide 1310-73-2			1 mg/m³ KGV: 2 mg/m³	TWA: 2 mg/m³ STEL: 2 mg/n STEL: 2 mg/m³			

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

8.2. Exposure controls

Personal protective equipment

Eye/face protection

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

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Hand protection Wear suitable gloves. Impervious gloves.

Skin and body protection Wear suitable protective clothing. Long sleeved clothing.

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

Appearanceaqueous solutionColourred brownOdourOdourless.

Odour threshold

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

Melting point / freezing pointNo data availableNone knownBoiling point / boiling rangeNo data availableNone knownFlammability (solid, gas)No data availableNone knownFlammability Limit in AirNone known

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Flash pointNo data availableNone knownAutoignition temperatureNo data availableNone knownDecomposition temperatureNone known

pH 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 None known

Relative densityNo data availableBulk densityNo data availableLiquid DensityNo 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

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10.1. Reactivity

Reactivity No information available.

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 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 values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 1,049.20 mg/kg **ATEmix (dermal)** 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 properties

Endocrine disrupting properties

11.2.2. Other information

Other adverse effects

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

Unknown aquatic toxicityContains 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

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

<u>IATA</u>

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14.1 UN number or ID number	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	Tiot applicable
Special Provisions	None
opeoidi i roviolollo	
IMDG	
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 Marine pollutant	Not applicable
14.6 Special precautions for user	
Special Provisions	None
14.7 Maritime transport in bulk	
according to IMO instruments	
•	
RID	
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
ADR	Not so sudate d
14.1 UN number or ID number	Not regulated
14.2	Not so sudate d
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	None
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)

Coodpanional inflosors (it 400 of France)		
Chemical name	French RG number	Title
Ethylene glycol	RG 84	-
107-21-1		

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 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

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value * Skin designation

lassification 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	

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, 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)

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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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