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SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. **Product identifier** Product form : Substance : Zinc sulfate, heptahydrate Substance name EC Index-No. : 030-006-00-9 EC-No. : 231-793-3 CAS-No. · 7446-20-0 Type of product Pure substance . ZnSO4.7H2O Formula ÷ Chemical structure 1 H-0-H : Environmentally hazardous substance, solid, n.o.s. / sulfuric acid, zinc salt (1:1), heptahydrate / Synonyms vitriol, white (=zinc sulfate, heptahydrate) / white vitriol (=zinc sulfate, heptahydrate) / zinc sulfate(1:1), heptahydrate / zinc sulfate, 7-hydrate / zinc sulfate, heptahydrate (1:1:7) / zinc sulphate, heptahydrate / zincvitriol, heptahydrate 1.2. Relevant identified uses of the substance or mixture and uses advised against 1.2.1. Relevant identified uses Use of the substance/mixture : Laboratory chemical Chemical raw material Fungicide Preservative 1.2.2. Uses advised against No additional information available Details of the supplier of the safety data sheet 1.3. ISOLAB Laborgeräte GmbH Am Dillhof 2 - 63863 Eschau / GERMANY Tel: + 49 93 74 / 978 55-0 Fax: +49 93 74 / 978 55-29 prodsafe@isolab.de

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Germany	Giftnotruf der Charité CBF, Haus VIII (Wirtschaftgebäude), UG	Hindenburgdamm 30 12203 Berlin	+49 30 19240	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Acute Tox. 4 (Oral)H302Eye Dam. 1H318Aquatic Acute 1H400Aquatic Chronic 1H410

Full text of hazard classes and H-statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

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2.2. Label elements



Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) GHS05 GHS07 GHS09 Signal word (CLP) : Danger Hazard statements (CLP) H302 - Harmful if swallowed : H318 - Causes serious eye damage H410 - Very toxic to aquatic life with long lasting effects Precautionary statements (CLP) : P273 Avoid release to the environment. P280 Wear eye 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. P313 Get medical advice/ attention.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients 3.1. Substances Name Product identifier % Zinc sulfate, heptahydrate (CAS-No.) 7446-20-0 (EC-No.) 231-793-3 (EC Index-No.) 030-006-00-9 100

Full text of H-statements: see section 16

3.2. Mixtures Not applicable

arrest: artii with labour Vomiting: p warming u physical stFirst-aid measures after inhalation: Remove th problems:First-aid measures after skin contact: Rinse with to a doctorFirst-aid measures after eye contact: Rinse imm not apply rFirst-aid measures after ingestion: Rinse mou Information	vital functions. Unconscious: maintain adequate airway and respiration. Respiratory icial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious red breathing: half-seated. Victim in shock: on his back with legs slightly raised. brevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no p). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid rain. Depending on the victim's condition: doctor/hospital.	
First-aid measures general: Check the arrest: artii with labour Vomiting: p warming u physical stFirst-aid measures after inhalation: Remove th problems:First-aid measures after skin contact: Rinse with to a doctorFirst-aid measures after eye contact: Rinse imm not apply rFirst-aid measures after ingestion: Rinse mou Information	icial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious red breathing: half-seated. Victim in shock: on his back with legs slightly raised. brevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no p). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid rain. Depending on the victim's condition: doctor/hospital.	
arrest: artii with labour Vomiting: p warming u physical st First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact First-aid measures after eye contact First-aid measures after ingestion First-aid measures after ingestion First-aid measures after ingestion	icial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious red breathing: half-seated. Victim in shock: on his back with legs slightly raised. brevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no p). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid rain. Depending on the victim's condition: doctor/hospital.	
First-aid measures after skin contact problems: First-aid measures after eye contact : Rinse with to a doctor First-aid measures after eye contact : Rinse imm not apply r First-aid measures after ingestion : Rinse mou Information Ingestion		
First-aid measures after eye contact to a doctor First-aid measures after eye contact : Rinse imm not apply r First-aid measures after ingestion : Rinse mou Information Ingestion	e victim into fresh air. Doctor: administration of corticoid spray. Respiratory consult a doctor/medical service.	
First-aid measures after ingestion : Rinse mou Information Ingestion :	Rinse with water. Soap may be used. Do not apply (chemical) neutralizing agents. Take vic to a doctor if irritation persists.	
Information Ingestion of	Rinse immediately with plenty of water for 15 minutes. Take victim to an ophthalmologist. Do not apply neutralizing agents.	
4.2 Most important symptoms and effects, both acute	Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Call Poison Information Centre (www.big.be/antigif.htm). Consult a doctor/medical service if you feel unwell Ingestion of large quantities: immediately to hospital. Doctor: gastric lavage.	
4.2. Most important symptoms and cheots, both dout	e and delayed	
Symptoms/effects after inhalation : AFTER IN	HALATION OF DUST: Coughing.	
Symptoms/effects after skin contact : Slight irrita	tion.	
Symptoms/effects after eye contact : Corrosion	of the eye tissue. Visual disturbances. Inflammation/damage of the eye tissue.	
Abdominal	SORPTION OF HIGH QUANTITIES: Gastrointestinal complaints. Nausea. Vomiting. pain. Blood in stool. Decreased renal function. Change in the haemogramme/blood n. Weakening of the immune system.	
	ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Skin rash/inflammation. Gastrointestinal complaints. Inflammation/damage of the eye tissue.	

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

No additional information available

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SECTION 5: Fire-fighting measur	res				
5.1. Extinguishing media					
Suitable extinguishing media	: EXTINGUISHING MEDIA FOR SURROUNDING FIRES: Adapt extinguishing media to the environment.				
Unsuitable extinguishing media	: No unsuitable extinguishing media known.				
.2. Special hazards arising from the substance or mixture					
Fire hazard	: DIRECT FIRE HAZARD. Non combustible.				
Explosion hazard	: DIRECT EXPLOSION HAZARD. No direct explosion hazard.				
5.3. Advice for firefighters					
Precautionary measures fire	: Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: have neighbourhood close doors and windows.				
Firefighting instructions	: Dilute toxic gases with water spray. Take account of environmentally hazardous firefighting water. Use water moderately and if possible collect or contain it.				
Protection during firefighting	: Heat/fire exposure: compressed air/oxygen apparatus.				
SECTION 6: Accidental release n	neasures				
6.1. Personal precautions, protectiv	e equipment and emergency procedures				
6.1.1. For non-emergency personnel					
Protective equipment	 Gloves. Safety glasses. Protective clothing. Dust cloud production: compressed air/oxygen apparatus. See "Material-Handling" to select protective clothing. 				
Emergency procedures	: Mark the danger area. Prevent dust cloud formation. No naked flames. Wash contaminated clothes.				
Measures in case of dust release	: In case of dust production: keep upwind. Dust production: have neighbourhood close doors and windows.				
6.1.2. For emergency responders					
6.1.2. For emergency responders No additional information available					
6.2. Environmental precautions					
Prevent soil and water pollution. Prevent sp	reading in sewers.				
6.3. Methods and material for conta	inment and cleaning up				
For containment	 Contain released substance, pump into suitable containers. Consult "Material-handling" to select material of containers. Plug the leak, cut off the supply. Dam up the solid spill. Knock down/dilute dust cloud with water spray. 				
Methods for cleaning up	: Stop dust cloud by covering with sand/earth. Scoop solid spill into closing containers. See "Material-handling" for suitable container materials. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.				
6.4. Reference to other sections					
No additional information available					
SECTION 7: Handling and storag	e				
7.1. Precautions for safe handling					
Precautions for safe handling	: Comply with the legal requirements. Remove contaminated clothing immediately. Clean				
T TECAULIONS FOR SALE HARDING	containinated clothing. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Avoid raising dust. Keep away from naked flames/heat. Observe strict hygiene. Keep container tightly closed. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.				
7.2. Conditions for safe storage, inc	luding any incompatibilities				
Heat and ignition sources	: KEEP SUBSTANCE AWAY FROM: heat sources.				
Information on mixed storage	: KEEP SUBSTANCE AWAY FROM: (strong) bases.				
Storage area	: Store at ambient temperature. Keep out of direct sunlight. Store in a dry area. Keep container ir a well-ventilated place. Meet the legal requirements.				
Special rules on packaging	: SPECIAL REQUIREMENTS: closing. dry. clean. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.				
Packaging materials	: SUITABLE MATERIAL: wood. glass. plastics. cardboard.				
7.3. Specific end use(s)					
No additional information available					

No additional information available

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Materials for protective clothing:

GIVE GOOD RESISTANCE: butyl rubber. PVC

Hand protection:

Gloves

Eye protection:

Safety glasses. In case of dust production: protective goggles

Skin and body protection:

Protective clothing

Respiratory protection:

Dust production: dust mask with filter type P3

SECTION 9: Physical and chemical properties				
9.1. Information on basic physical and chemical properties				
Physical state	: Solid			
Appearance	: Crystalline solid. Powder. Grains.			
Molecular mass	: 287.54 g/mol			
Colour	: Colourless or white.			
Odour	: Odourless.			
Odour threshold	: No data available			
рН	: 4 - 6 (50 g/l, H ₂ O, 20 °C)			
Relative evaporation rate (butylacetate=1)	: No data available			
Melting point	: 100 °C			
Freezing point	: No data available			
Boiling point	: Not applicable			
Flash point	: Not applicable			
Auto-ignition temperature	: No data available			
Decomposition temperature	: > 500 °C			
Flammability (solid, gas)	: No data available			
Vapour pressure	: No data available			
Relative vapour density at 20 °C	: No data available			
Relative density	: 2			
Density	: 1.97 g/cm3 (20 °C)			
Solubility	: Soluble in water. Soluble in methanol. Soluble in glycerol. Water: 965 g/l			
Log Pow	: No data available			
Viscosity, kinematic	: No data available			
Viscosity, dynamic	: No data available			
Explosive properties	: No data available			
Oxidising properties	: No data available			
Explosive limits	: No data available			
9.2. Other information				
VOC content	: Not applicable			
Other properties	: Substance has acid reaction.			



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SECTION 10: Stability and reactivity

10.1. Reactivity

On burning: release of toxic and corrosive gases/vapours (sulphur oxides, zinc oxide) and formation of metallic fumes. Violent exothermic reaction with (strong) bases.

10.2.	Chemical stability				
No data	lo data available.				
10.3.	Possibility of hazardous reactions				
No addi	tional information available				
10.4.	Conditions to avoid				
No addi	tional information available				
10.5.	Incompatible materials				
No addi	No additional information available				
10.6.	Hazardous decomposition products				

No additional information available

SECTION 11: Toxicological information				
11.1. Information on toxicological effects				
Acute toxicity :	Oral: Harmful if swallowed.			
Zinc sulfate, heptahydrate (7446-20-0)				
LD50 oral rat	1260 mg/kg (Rat)			
Skin corrosion/irritation :	Not classified			
	рН: 4.5			
Serious eye damage/irritation :	Causes serious eye damage.			
	рН: 4.5			
Respiratory or skin sensitisation :	Not classified			
Germ cell mutagenicity :	Not classified			
Carcinogenicity :	Not classified			
Reproductive toxicity :	Not classified			
STOT-single exposure :	Not classified			
STOT-repeated exposure :	Not classified			
Aspiration hazard :	Not classified			

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: Dangerous for the environment.
Ecology - air	: Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).
Ecology - water	: Severe water pollutant (surface water). For Flanders: maximum concentration in drinking water: 5.000 mg/l (zinc)(M.B. 28/1/2003). Maximum concentration in drinking water: 250 mg/l (sulfate) (Directive 98/83/EC). Toxic to fishes. Very toxic to invertebrates (Daphnia). Highly toxic to algae. May cause eutrophication at very low concentration. pH shift. Inhibition of activated sludge.

Zinc sulfate, heptahydrate (7446-20-0)		
LC50 fish 2	4.6 ppm (LC50; 96 h; Salmo gairdneri)	
EC50 Daphnia 2 0.56 mg/l (EC50; 48 h)		
Threshold limit algae 1	.0536,EC50; 72 h	

12.2. Persistence and degradability

Zinc sulfate, heptahydrate (7446-20-0)		
Persistence and degradability Biodegradability: not applicable.		
Biochemical oxygen demand (BOD)	Not applicable	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	

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12.3. Bioaccumulative potential		
Zinc sulfate, heptahydrate (7446-20-0)		
BCF fish 1	59 - 242 (BCF)	
BCF fish 2	59 - 242 (BCF)	
Bioaccumulative potential	Bioaccumable.	

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations			
13.1. Waste treatment methods			
Product/Packaging disposal recommendations	: Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle/reuse. Precipitate/make insoluble. Remove to an authorized dump (Class I). Treat using the best available techniques before discharge into drains or the aquatic environment.		
Additional information	: LWCA (the Netherlands): KGA category 05. Can be considered as non hazardous waste according to Directive 2008/98/EC.		
European List of Waste (LoW) code	: 06 03 14 - solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13		

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID		
14.1. UN number						
3077	3077	3077	3077	3077		
14.2. UN proper shippi	14.2. UN proper shipping name					
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	Environmentally hazardous substance, solid, n.o.s.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.		
Transport document descr		·				
UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III, (E)	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III, MARINE POLLUTANT	UN 3077 Environmentally hazardous substance, solid, n.o.s., 9, III	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III		
14.3. Transport hazard			-			
9	9	9	9	9		
14.4. Packing group						
III	Ш	III	III	Ш		
14.5. Environmental hazards						
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes		
No supplementary information available						

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14.6. Special precautions for user



- Overland transport	
Classification code (ADR)	: M7
Special provisions (ADR)	: 274, 335, 601, 375
Limited quantities (ADR)	: 5kg
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P002, IBC08, LP02, R001
Mixed packing provisions (ADR)	: MP10
Portable tank and bulk container instructions (ADR)	: T1, BK1, BK2
Portable tank and bulk container special provisions (ADR)	: TP33
Tank code (ADR)	: SGAV, LGBV
Vehicle for tank carriage	: AT
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V13
Special provisions for carriage - Bulk (ADR)	: VC1, VC2
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV13
Hazard identification number (Kemler No.)	: 90
Orange plates	
	90
	3077
Tunnel restriction code (ADR)	: E
EAC code	: 2Z
Transment by and	
- Transport by sea	. Cubicat
Transport regulations (IMDG)	: Subject
Special provisions (IMDG)	: 274, 335, 966, 967, 969
Limited quantities (IMDG)	: 5 kg
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P002, LP02
Special packing provisions (IMDG)	: PP12
IBC packing instructions (IMDG)	: IBC08
IBC special provisions (IMDG)	: B3
Tank instructions (IMDG)	: T1, BK1, BK2, BK3
Tank special provisions (IMDG)	: TP33
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-F
Stowage category (IMDG)	: A
Stowage and handling (IMDG)	: SW23
MFAG-No	: 171
- Air transport	
Transport regulations (IATA)	: Subject to the provisions
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y956
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 956
PCA max net quantity (IATA)	: 400kg
CAO packing instructions (IATA)	: 956
CAO max net quantity (IATA)	: 400kg
Special provisions (IATA)	: A97, A158, A179, A197
ERG code (IATA)	: 9L
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- Inland waterway transport		
Classification code (ADN)	:	M7
Special provisions (ADN)	:	274, 335, 375, 601
Limited quantities (ADN)	:	5 kg
Excepted quantities (ADN)	:	E1
Carriage permitted (ADN)	:	T* B**
Equipment required (ADN)	:	PP, A
Number of blue cones/lights (ADN)	:	0
- Rail transport		
Transport regulations (RID)	:	Subject
Classification code (RID)	:	M7
Special provisions (RID)	:	274, 335, 375, 601
Limited quantities (RID)	:	5kg
Excepted quantities (RID)	:	E1
Packing instructions (RID)	:	P002, IBC08, LP02, R001
Special packing provisions (RID)	:	PP12, B3
Mixed packing provisions (RID)	:	MP10
Portable tank and bulk container instructions (RID)	:	T1, BK1, BK2
Portable tank and bulk container special provisions (RID)	:	TP33
Tank codes for RID tanks (RID)	:	SGAV, LGBV
Transport category (RID)	:	3
Special provisions for carriage – Packages (RID)	:	W13
Special provisions for carriage – Bulk (RID)	:	VC1, VC2
Special provisions for carriage - Loading, unloading and handling (RID)	:	CW13, CW31
Colis express (express parcels) (RID)	:	CE11
Hazard identification number (RID)	:	90

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions Zinc sulfate, heptahydrate is not on the REACH Candidate List Zinc sulfate, heptahydrate is not on the REACH Annex XIV List

VOC content

: Not applicable

15.1.2. National regulations

Germany

VwVwS Annex reference	: Water hazard class (WGK) 3, severe hazard to waters (Classification according to VwVwS, Annex 3; ID No. 432)
WGK remark	: Classification water polluting based on the R-phrases in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 3)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)
Netherlands	
SZW-lijst van kankerverwekkende stoffen	: The substance is not listed

SZW-lijst van kankerverwekkende stoffen	: The substance is not listed
SZW-lijst van mutagene stoffen	: The substance is not listed

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NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: The substance is not listed

Denmark

Recommendations Danish Regulation

: Young people below the age of 18 years are not allowed to use the product

Chemical safety assessment 15.2.

No additional information available

SECTION 16: Other information

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
EC50	Median effective concentration
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
Data sources	: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE

ita sources

COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Full text of H- and EUH-stater	ments:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1	
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
H302	Harmful if swallowed	
H318	Causes serious eye damage	
H400	Very toxic to aquatic life	
H410	Very toxic to aquatic life with long lasting effects	

SDS ISOLAB

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product