Safety Data Sheet

according to Regulation (EU) 2015/830 Date of issue: 01/06/2022 Version: 0.0 Doc No: SDS-903.016/3



SECT	ON 1: Identification of the s	ubstance/mixture and of the company/undertaking
1.1.	Product identifier	
Product form		: Mixture
Product	name	: Ammonia solution 25%
1.2.	Relevant identified uses of the su	ubstance or mixture and uses advised against
1.2.1.	Relevant identified uses	
Use of t	he substance/mixture	: Laboratory chemical
1.2.2.	Uses advised against	
No addit	tional information available	
1.3.	Details of the supplier of the safe	ty data sheet
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 (0) 30 19240	

## **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

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

Met. Corr. 1	H290
Skin corrosion/irritation, Category 1B	H314
Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	H335
Hazardous to the aquatic environment — Acute Hazard, Category 1	H400

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

Specific concentration limits:

(C >= 5) STOT SE 3, H335

#### Adverse physicochemical, human health and environmental effects

No additional information available

### 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)	: H290 – May be corrosive to metals H314 - Causes severe skin burns and eye damage H335 - May cause respiratory irritation H400 - Very toxic to aquatic life
Precautionary statements (CLP)	<ul> <li>P280 - Wear protective gloves, eye protection, face protection, protective clothing P273 - Avoid release to the environment P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P391 - Collect spillage</li> </ul>

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### 2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients			
3.1. Substances			
Not applicable			
3.2. Mixtures			
Name	Product identifier	%	
Ammonium hydroxide, aqueous solution, conc=25%	(CAS No) 1336-21-6 (EC no) 215-647-6 (EC index no) 007-001-01-2	≥ 25% - < 50 %	

#### Full text of H-statements: see section 16

SECTION 4: First aid measures			
4.1. Description of first aid measures			
First-aid measures general	: Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.		
First-aid measures after inhalation	: Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.		
First-aid measures after skin contact	: Wash immediately with lots of water (15 minutes)/shower. Do not apply (chemical) neutralizing agents. Remove clothing while washing. Do not remove clothing if it sticks to the skin. Cover wounds with sterile bandage. Consult a doctor/medical service. If burned surface > 10%: take victim to hospital.		
First-aid measures after eye contact	: Rinse immediately with plenty of water for 15 minutes. Take victim to an ophthalmologist. Do not apply neutralizing agents.		
First-aid measures after ingestion	: Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Call Poison Information Centre (www.big.be/antigif.htm). Immediately consult a doctor/medical service. Take the container/vomit to the doctor/hospital. Ingestion of large quantities: immediately to hospital. Doctor: gastric lavage.		
4.2. Most important symptoms and effe	cts, both acute and delayed		
Symptoms/injuries after inhalation	: Dry/sore throat. Coughing. Irritation of the respiratory tract. Irritation of the nasal mucous membranes. Nausea. Headache. EXPOSURE TO HIGH CONCENTRATIONS: Possible oedema of the upper respiratory tract. Possible inflammation of the respiratory tract. Possible laryngeal spasm/oedema. FOLLOWING SYMPTOMS MAY APPEAR LATER: Risk of lung oedema. Risk of pneumonia. Respiratory difficulties. Possible esophageal perforation.		
Symptoms/injuries after skin contact	: Caustic burns/corrosion of the skin.		
Symptoms/injuries after eye contact	: Corrosion of the eye tissue. Permanent eye damage.		
Symptoms/injuries after ingestion	Risk of aspiration pneumonia. Vomiting. Nausea. AFTER ABSORPTION OF HIGH QUANTITIES: Blue/grey discolouration of the skin. Blood in stool. Blood in vomit. Possible esophageal perforation. FOLLOWING SYMPTOMS MAY APPEAR LATER: Shock.		
Chronic symptoms	: ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Coughing. Irritation of the respiratory tract. Irritation of the eye tissue. Redness of the eye tissue. Possible inflammation of the respiratory tract. Respiratory difficulties. Affection of the nasal septum.		

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

No additional information available

SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media	: Water. Water spray. Polyvalent foam. BC powder.	
Unsuitable extinguishing media	: No unsuitable extinguishing media known.	
5.2. Special hazards arising from the substance or mixture		
Fire hazard	: DIRECT FIRE HAZARD. Non-flammable.	
Explosion hazard	: INDIRECT EXPLOSION HAZARD. Reactions with explosion hazards: see "Reactivity Hazard".	

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5.3. Advice for firefigh	ters		
Firefighting instructions	heat. Dilute toxic ga	with water spray/remove them into safety. Do not move the load if exposed to a ses with water spray. Take account of toxic fire-fighting water. Use water obssible collect or contain it.	
SECTION 6: Accidenta	al release measures		
5.1. Personal precaution	ons, protective equipment and emergen	cy procedures	
5.1.1. For non-emergend	cy personnel		
Protective equipment	: Gas-tight suit. Corro	: Gas-tight suit. Corrosion-proof suit. See "Material-Handling" to select protective clothing.	
mergency procedures		the danger area. Consider evacuation. Close doors and windows of No naked flames. Keep containers closed. Wash contaminated clothes.	
<b>5.1.2.</b> For emergency resolutional information available	•		
6.2. Environmental pre	ecautions		
Prevent soil and water pollution	on. Prevent spreading in sewers.		
6.3. Methods and mate	erial for containment and cleaning up		
For containment	select material of co	ubstance, pump into suitable containers. Consult "Material-handling" to ontainers. Plug the leak, cut off the supply. Dam up the liquid spill. Try to . Dilute toxic gases/vapours with water spray. Take account of ipitation water.	
Methods for cleaning up	absorbed substance materials. Carefully contaminated surface	into absorbent material, e.g.: sand/earth or powdered limestone. Scoop e into closing containers. See "Material-handling" for suitable container collect the spill/leftovers. Damaged/cooled tanks must be emptied. Clean ces with an excess of water. Take collected spill to manufacturer/competer thing and equipment after handling.	
6.4. Reference to other	r sections		
No additional information avail	ilable		
SECTION 7: Handling	and storage		
7.1. Precautions for sa			
	ire nandlind		
	: Comply with the leg contaminated clothi before use. Do not Observe strict hygie regularly. Carry ope	al requirements. Remove contaminated clothing immediately. Clean ng. Use corrosionproof equipment. Thoroughly clean/dry the installation discharge the waste into the drain. Keep away from naked flames/heat. ene. Keep container tightly closed. Measure the concentration in the air rrations in the open/under local exhaust/ventilation or with respiratory gas must be neutralised.	
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Precautions for safe handling 7.2. Conditions for saf Storage temperature Heat and ignition sources nformation on mixed storage	<ul> <li>Comply with the leg contaminated clothi before use. Do not o Observe strict hygie regularly. Carry ope protection. Exhaust</li> <li>e storage, including any incompatibilitie</li> <li>&lt; 25 °C</li> <li>KEEP SUBSTANCE</li> <li>KEEP SUBSTANCE halogens.</li> </ul>	ng. Use corrosionproof equipment. Thoroughly clean/dry the installation discharge the waste into the drain. Keep away from naked flames/heat. ene. Keep container tightly closed. Measure the concentration in the air trations in the open/under local exhaust/ventilation or with respiratory gas must be neutralised. E AWAY FROM: heat sources. E AWAY FROM: oxidizing agents. (strong) acids. (strong) bases. metals.	
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Precautions for safe handling         7.2.       Conditions for safe         Storage temperature         Heat and ignition sources         Information on mixed storage         Storage area         Special rules on packaging         Packaging materials         7.3.       Specific end use(s)         No additional information ava         SECTION 8: Exposure         8.1.       Control parameter         Ammonium hydroxide, aq         Finland	<ul> <li>Comply with the leg contaminated clothi before use. Do not o Observe strict hygie regularly. Carry ope protection. Exhaust</li> <li>e storage, including any incompatibilities         <ul> <li>&lt; 25 °C</li> <li>KEEP SUBSTANCE</li> <li>KEEP SUBSTANCE</li> <li>KEEP SUBSTANCE</li> <li>KEEP SUBSTANCE</li> <li>SPECIAL REQUIRE Secure fragile pack</li> <li>SUITABLE MATER tin. zinc. nickel. browsitable</li> </ul> </li> <li>controls/personal protection</li> <li>Local name</li> </ul>	ng. Use corrosionproof equipment. Thoroughly clean/dry the installation discharge the waste into the drain. Keep away from naked flames/heat. ene. Keep container tightly closed. Measure the concentration in the air rrations in the open/under local exhaust/ventilation or with respiratory gas must be neutralised. E AWAY FROM: heat sources. E AWAY FROM: oxidizing agents. (strong) acids. (strong) bases. metals. well-ventilated place. Keep locked up. Provide for a tub to collect spills. irements. EMENTS: closing. clean. correctly labelled. meet the legal requirements. agings in solid containers. IAL: synthetic material. glass. MATERIAL TO AVOID: aluminium. copper. nze. Ammoniakkiliuos	

Finland

Finland

36 mg/m<sup>3</sup>

50 ppm

HTP-arvo (15 min)

HTP-arvo (15 min) (ppm)

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## 8.2. Exposure controls

#### Materials for protective clothing:

GIVE EXCELLENT RESISTANCE: No data available. GIVE GOOD RESISTANCE: butyl rubber. nitrile rubber. tetrafluoroethylene. viton. GIVE LESS RESISTANCE: polyethylene. PVA. PVC. GIVE POOR RESISTANCE: No data available

Hand protection:

Gloves

Eye protection:

Safety glasses

Skin and body protection:

Head/neck protection. Corrosion-proof clothing

### **Respiratory protection:**

Gas mask with filter type K. High vapour/gas concentration: self-contained respirator

SECTION 9: Physical and chemical properties			
9.1. Information on basic physical and chemical properties			
Physical state	: Liquid		
Appearance	: Liquid.		
Colour	: Colourless.		
Odour	: Irritating/pungent odour.		
Odour threshold	: 1 - 50 ppm		
рН	: 11.7 (1%)		
Relative evaporation rate (butylacetate=1)	: No data available		
Melting point	: -57.5 °C		
Freezing point	: No data available		
Boiling point	: 37.7 °C (1013 hPa)		
Flash point	: No data available		
Auto-ignition temperature	: No data available		
Decomposition temperature	: No data available		
Flammability (solid, gas)	: No data available		
Vapour pressure	: 483 hPa (20 °C)		
Relative vapour density at 20 °C	: No data available		
Relative density	: 0.903 g/cm <sup>3</sup>		
Density	: 0.903 g/cm3 (20 °C)		
Solubility	: Water: Complete		
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	: 15.4 - 33.6 %(V)		
9.2. Other information			
Minimum ignition energy	: Not applicable		
VOC content	: No data available		
Other properties	: Volatile. Substance has basic reaction.		

# **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

On heating: release of toxic/corrosive/combustible gases/vapours (ammonia). On burning: release of toxic and corrosive gases/vapours (nitrous vapours). Concentrated solution violent to explosive reaction with many compounds e.g.: with (some) halogens compounds, with (strong) oxidizers and with (some) acids. May be corrosive to metals.





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10.2.	Chemical stability		
Stable u	Stable under normal conditions.		
10.3.	Possibility of hazardous reactions		
No addi	No additional information available		
10.4.	Conditions to avoid		
No addi	tional information available		
10.5.	Incompatible materials		
No addi	tional information available		
10.6.	Hazardous decomposition products	3	
No addi	tional information available		
SECT	ION 11: Toxicological informa	lion	
11.1.	Information on toxicological effects		
Acute to	oxicity	: Not classified	
Skin co	rosion/irritation	: Causes severe skin burns and eye damage. pH: 11.7	
Serious	eye damage/irritation	<ul> <li>Serious eye damage, category 1, implicit</li> <li>pH: 11.7</li> </ul>	
Respira	tory or skin sensitisation	: Not classified	
Germ ce	ell mutagenicity	: Not classified	

SECTION 11: Toxicological information		
11.1. Information on toxicological eff	ects	
Acute toxicity	: Not classified	
Skin corrosion/irritation	: Causes severe skin burns and eye damage. pH: 11.7	
Serious eye damage/irritation	: Serious eye damage, category 1, implicit pH: 11.7	
Respiratory or skin sensitisation	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
STOT-single exposure	: May cause respiratory irritation.	
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). None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EC) No 842/2006).
Ecology - water	: Affects the self-cleaning capacity of surface water. Ground water pollutant. Maximum concentration in drinking water: 0.50 mg/l (ammonium) (Directive 98/83/EC). Highly toxic to fishes. Toxic to invertebrates (Daphnia). May cause eutrophication. Highly toxic to plankton. pH shift. Inhibition of activated sludge.

Ammonium hydroxide, aqueous so	lution, conc=25% (1336-21-6)
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. No (test)data on mobility of the components available. Ozonation in the air.
2.3. Bioaccumulative potential	
Ammonium hydroxide, aqueous so	Slution, conc=25% (1336-21-6)
Ammonium hydroxide, aqueous so Bioaccumulative potential	Not bioaccumulative.
<b>2</b> 7 1	
Bioaccumulative potential	

No additional information available

#### 12.6. Other adverse effects

No additional information available

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**SECTION 13: Disposal considerations** 

#### Waste treatment methods 13.1.

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. Remove to an authorized plant for the destruction, neutralization and elimination of hazardous waste. Recycle/reuse. Remove for physico-chemical/biological treatment. Use appropriate containment to avoid environmental contamination.
Additional information	: LWCA (the Netherlands): KGA category 02. Hazardous waste according to Directive 2008/98/EC.
European List of Waste (LoW) code	: 06 02 03* - ammonium hydroxide

# **SECTION 14: Transport information**

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

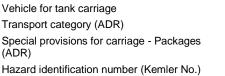
ADR	IMDG	IATA	ADN	RID
14.1. UN number			1	•
2672	2672	2672	2672	2672
14.2. UN proper shippi	ng name		•	•
AMMONIA SOLUTION (CONTAINS ; Ammonium hydroxide, aqueous solution, conc=25%) Transport document descr	AMMONIA SOLUTION (CONTAINS ; Ammonium hydroxide, aqueous solution, conc=25%) iption	Ammonia solution (CONTAINS ; Ammonium hydroxide, aqueous solution, conc=25%)	AMMONIA SOLUTION (CONTAINS ; Ammonium hydroxide, aqueous solution, conc=25%)	AMMONIA SOLUTION (CONTAINS ; Ammonium hydroxide, aqueous solution, conc=25%)
UN 2672 AMMONIA SOLUTION (CONTAINS ; Ammonium hydroxide, aqueous solution, conc=25%), 8, III, (E), ENVIRONMENTALLY HAZARDOUS	UN 2672 AMMONIA SOLUTION (CONTAINS ; Ammonium hydroxide, aqueous solution, conc=25%), 8, III, MARINE POLLUTANT/ENVIRONM ENTALLY HAZARDOUS	UN 2672 Ammonia solution (CONTAINS ; Ammonium hydroxide, aqueous solution, conc=25%), 8, III, ENVIRONMENTALLY HAZARDOUS	UN 2672 AMMONIA SOLUTION (CONTAINS ; Ammonium hydroxide, aqueous solution, conc=25%), 8, III, ENVIRONMENTALLY HAZARDOUS	UN 2672 AMMONIA SOLUTION (CONTAINS ; Ammonium hydroxide, aqueous solution, conc=25%), 8, III, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard	class(es)		1	
8	8	8	8	8
14.4. Packing group			1	
III	=	III	III	III
14.5. Environmental ha				
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				

#### 14.6. Special precautions for user

- Overland transport	
Classification code (ADR)	: C5
Special provisions (ADR)	: 543
Limited quantities (ADR)	: 51
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Special packing provisions (ADR)	: B4
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T7
Portable tank and bulk container special provisions (ADR)	: TP1
Tank code (ADR)	: L4BN
01/06/2022	ENI (English)

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: AT

: V12

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: 3

Orange plates

Tunnel restriction code (ADR) EAC code

# - Transport by sea

Transport regulations (IMDG)
Limited quantities (IMDG)
Excepted quantities (IMDG)
Packing instructions (IMDG)
IBC packing instructions (IMDG)
IBC special provisions (IMDG)
Tank instructions (IMDG)
Tank special provisions (IMDG)
EmS-No. (Fire)
EmS-No. (Spillage)
Stowage category (IMDG)
Stowage and handling (IMDG)
Segregation (IMDG)
Properties and observations (IMDG)

## MFAG-No

## - Air transport

- Air transport		
Transport regulations (IATA)	:	Sub
PCA Excepted quantities (IATA)	:	E1
PCA Limited quantities (IATA)	:	Y84
PCA limited quantity max net quantity (IATA)	:	1L
PCA packing instructions (IATA)	:	852
PCA max net quantity (IATA)	:	5L
CAO packing instructions (IATA)	:	856
CAO max net quantity (IATA)	:	60L
Special provisions (IATA)	:	A64
ERG code (IATA)	:	8L
- Inland waterway transport		
Classification code (ADN)	:	C5
Special provisions (ADN)	:	543
Limited quantities (ADN)	:	5 L
Excepted quantities (ADN)	:	E1
Carriage permitted (ADN)	:	Т
Equipment required (ADN)	:	PP,
Number of blue cones/lights (ADN)	:	0
- Rail transport		
Transport regulations (RID)	:	Sub
Classification code (RID)		C5
Special provisions (RID)	÷	543
Limited quantities (RID)	÷	5L
Excepted quantities (RID)	:	E1
	•	- ·



	80	
	2672	
	: E	
	: 2R	
	: Subject	
	: 5L	
	: E1	
	: P001, LP01	
	: IBC03	
	: B11	
	: T7 . TD4	
	: TP1 : F-A	
	: F-A : S-B	
	: 3-b	
	: SW2, SW5	
	: SG35	
	: Colourless liquid with a pungent odour.Corrosive to copper, nickel, zinc and tin and the	eir allovs
	such as brass. Not significantly corrosive to iron and steel. Reacts violently with acids. and vapour cause burns to skin, eyes and mucous membranes.	Liquid
	: 154	
	: Subject	
	: E1	
	: Y841	
)	: 1L	
	: 852	
	: 5L	
	: 856	
	: 60L	
	: A64	
	: 8L	
	: C5	
	: 543	
	: 5L	
	: E1	
	: T	
	: PP, EP	
	: 0	
	: Subject	
	: C5	
	: 543	

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Packing instructions (RID)	: P001, IBC03, LP01, R001
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T7
Portable tank and bulk container special provisions (RID)	: TP1
Tank codes for RID tanks (RID)	: L4BN
Transport category (RID)	: 3
Special provisions for carriage – Packages (RID)	: W12
Colis express (express parcels) (RID)	: CE8
Hazard identification number (RID)	: 80

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

#### Not applicable

SECT	ION 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

Ammonium hydroxide, aqueous solution, conc=25% is not on the REACH Candidate List Ammonium hydroxide, aqueous solution, conc=25% is not on the REACH Annex XIV List

#### VOC content

: No data available

#### 15.1.2. National regulations

12th Ordinance Implementing the Federal

#### Germany

VwVwS Annex reference

WGK remark

- : Water hazard class (WGK) 2, hazard to waters (Classification according to VwVwS, Annex 1 or 2; ID No. 211)
  - : Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 4)
- : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Immission Control Act - 12.BImSchV	

# Netherlands

: 5 - Very toxic to aquatic organisms
: The substance is not listed
: Young people below the age of 18 years are not allowed to use the product

#### 15.2. Chemical safety assessment

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

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ΙΑΤΑ	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
PBT	Persistent Bioaccumulative Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative
Data sources	. RECHIATION (EC) No 1272/2008 OF THE ELIPOPEAN PARI IAMENT AND OF THE

Data sources

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE 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.

Met. Corr. 1	Corrosive to metals, Category 1
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H314	Causes severe skin burns and eye damage
H335	May cause respiratory irritation
H400	Very toxic to aquatic life
H290	May be corrosive to metals

#### 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