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

### 1.1. Product identifier

Product form : Mixture  
Trade name : Hemolysis Stability Solution  
Product group : IN VITRO DIAGNOSTIC USE ONLY

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

#### 1.2.1. Relevant identified uses

Main use category : Professional uses  
Use of the substance/mixture : Laboratory use  
Stabilizer  
Inhibitor

#### 1.2.2. Uses advised against

No data available

### 1.3. Details of the supplier of the safety data sheet

#### Supplier

Tosoh Europe NV  
Transportstraat 4  
3980 Tessenderlo - Belgium  
T +32 13 66 88 30 - F +32 13 66 47 49  
[info.raqa.eu@tosoh.com](mailto:info.raqa.eu@tosoh.com)

#### Manufacturer

TOSOH CORPORATION  
3-8-2 Shiba, Minato-ku  
Tokyo 105-8623 - Japan  
T + 81 3 5427 5181 - F + 81 3 5427 5220

### 1.4. Emergency telephone number

Country	Official advisory body	Address	Emergency number
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit	Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle	0844 892 0111 (UK only, 24/7, healthcare professionals only)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Not classified

### 2.2. Label elements

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

Extra phrases : EUH032 - Contact with acids liberates very toxic gas.

### 2.3. Other hazards

Other hazards : Results of PBT and vPvB assessment : Not applicable.

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### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Sodium azide	(CAS-No.) 26628-22-8 (EC-No.) 247-852-1 (EC Index) 011-004-00-7	0,1 - <0,25	Acute Tox. 2 (Oral), H300 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-statements: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

Additional advice	: First aider: Pay attention to self-protection!. Concerning personal protective equipment to use, see section 8. Never give anything by mouth to an unconscious person. In case of doubt or persistent symptoms, consult always a physician. Show this safety data sheet to the doctor in attendance. Treat symptomatically.
Inhalation	: Remove casualty to fresh air and keep warm and at rest. In case of doubt or persistent symptoms, consult always a physician.
Skin contact	: Remove contaminated clothing and shoes. Gently wash with plenty of soap and water. In case of doubt or persistent symptoms, consult always a physician.
Eyes contact	: Rinse immediately carefully and thoroughly with eye-bath or water. In case of doubt or persistent symptoms, consult always a physician.
Ingestion	: Rinse mouth thoroughly with water. Get medical advice/attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

Inhalation	: Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
Skin contact	: Not expected to present a significant skin hazard under anticipated conditions of normal use.
Eyes contact	: Not expected to present a significant eye contact hazard under anticipated conditions of normal use.
Ingestion	: Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

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

No data available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	: carbon dioxide (CO <sub>2</sub> ), powder, alcohol-resistant foam, water spray.
Unsuitable extinguishing media	: Strong water jet.

#### 5.2. Special hazards arising from the substance or mixture

Specific hazards	: Not flammable. Heating will cause a rise in pressure with a risk of bursting.
Hazardous decomposition products in case of fire	: Unknown.

#### 5.3. Advice for firefighters

Firefighting instructions	: Evacuate area. Use water spray or fog for cooling exposed containers. Contain the extinguishing fluids by bunding. Prevent fire fighting water from entering the environment.
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Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus.
Other information	: Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of waste in accordance with environmental legislation.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

For non-emergency personnel	: Evacuate unnecessary personnel. Keep upwind. Provide adequate ventilation. Wear recommended personal protective equipment. Concerning personal protective equipment to use, see section 8. Do not breathe vapours. Avoid contact with skin, eyes and clothing.
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#### 6.1.2. For emergency responders

For emergency responders	: Ensure procedures and training for emergency decontamination and disposal are in place. Concerning personal protective equipment to use, see section 8.
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### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Notify authorities if product enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up	: Stop leak if safe to do so. Dam up the liquid spill. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Recover large spills by pumping (use an explosion proof or hand pump). Place in a suitable container for disposal in accordance with the waste regulations (see Section 13). This material and its container must be disposed of in a safe way, and as per local legislation.
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### 6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling	: Provide adequate ventilation. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Do not breathe vapours. Avoid contact with skin, eyes and clothing. Take any precaution to avoid mixing with Incompatible materials, Refer to Section 10 on Incompatible Materials. Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time). Avoid release to the environment.
Hygiene measures	: Keep good industrial hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feedingstuffs. Remove contaminated clothes. Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Store in a dry, cool and well-ventilated place. Do not store near or with any of the incompatible materials listed in section 10. Bund storage facilities to prevent soil and water pollution in the event of spillage.
Packaging materials	: Keep only in the original container.

### 7.3. Specific end use(s)

No data available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Sodium azide (26628-22-8)		
EU	IOEL TWA	0,1 mg/m <sup>3</sup>

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<b>Sodium azide (26628-22-8)</b>		
EU	IOEL STEL	0,3 mg/m <sup>3</sup>
EU	Notes	Possibility of significant uptake through the skin
Austria	MAK (OEL TWA)	0,1 mg/m <sup>3</sup>
Austria	MAK (OEL STEL)	0,3 mg/m <sup>3</sup>
Bulgaria	OEL TWA	0,1 mg/m <sup>3</sup>
Bulgaria	OEL STEL	0,3 mg/m <sup>3</sup>
Croatia	GVI (OEL TWA) [1]	0,1 mg/m <sup>3</sup>
Croatia	KGVI (OEL STEL)	0,3 mg/m <sup>3</sup>
Cyprus	OEL TWA	0,1 mg/m <sup>3</sup>
Cyprus	OEL STEL	0,3 mg/m <sup>3</sup>
Czech Republic	PEL (OEL TWA)	0,1 mg/m <sup>3</sup>
Denmark	OEL TWA [1]	0,1 mg/m <sup>3</sup>
Estonia	OEL TWA	0,1 mg/m <sup>3</sup>
Estonia	OEL STEL	0,3 mg/m <sup>3</sup>
Finland	HTP (OEL TWA) [1]	0,1 mg/m <sup>3</sup>
Finland	HTP (OEL STEL)	0,3 mg/m <sup>3</sup>
France	VME (OEL TWA)	0,1 mg/m <sup>3</sup> (restrictive limit)
France	VLE (OEL C/STEL)	0,3 mg/m <sup>3</sup> (restrictive limit)
Germany	Occupational exposure limit value (mg/m <sup>3</sup> ) (TRGS900)	0,2 mg/m <sup>3</sup>
Gibraltar	OEL TWA	0,1 mg/m <sup>3</sup>
Gibraltar	OEL STEL	0,3 mg/m <sup>3</sup>
Greece	OEL TWA	0,3 mg/m <sup>3</sup>
Greece	OEL TWA [ppm]	0,1 ppm
Greece	OEL STEL	0,3 mg/m <sup>3</sup>
Greece	OEL STEL [ppm]	0,1 ppm
Hungary	AK (OEL TWA)	0,1 mg/m <sup>3</sup>
Hungary	CK (OEL STEL)	0,3 mg/m <sup>3</sup>
Ireland	OEL TWA [1]	0,1 mg/m <sup>3</sup>
Ireland	OEL STEL	0,3 mg/m <sup>3</sup>
Italy	OEL TWA	0,1 mg/m <sup>3</sup>
Italy	OEL STEL	0,3 mg/m <sup>3</sup>
Latvia	OEL TWA	0,1 mg/m <sup>3</sup>
Lithuania	IPRV (OEL TWA)	0,1 mg/m <sup>3</sup>
Lithuania	TPRV (OEL STEL)	0,3 mg/m <sup>3</sup>
Luxembourg	OEL TWA	0,1 mg/m <sup>3</sup>
Luxembourg	OEL STEL	0,3 mg/m <sup>3</sup>
Malta	OEL TWA	0,1 mg/m <sup>3</sup>
Malta	OEL STEL	0,3 mg/m <sup>3</sup>
Netherlands	MAC-TGG (OEL TWA)	0,1 mg/m <sup>3</sup>
Netherlands	MAC-15 (OEL STEL)	0,3 mg/m <sup>3</sup>
Poland	NDS (OEL TWA)	0,1 mg/m <sup>3</sup>
Poland	NDSch (OEL STEL)	0,3 mg/m <sup>3</sup>
Portugal	OEL TWA	0,1 mg/m <sup>3</sup> (indicative limit value)
Portugal	OEL STEL	0,3 mg/m <sup>3</sup> (indicative limit value)

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<b>Sodium azide (26628-22-8)</b>		
Portugal	OEL C	0,29 mg/m <sup>3</sup>
Portugal	OEL C [ppm]	0,11 ppm (vapor)
Romania	OEL TWA	0,1 mg/m <sup>3</sup>
Romania	OEL STEL	0,3 mg/m <sup>3</sup>
Slovakia	NPHV (OEL TWA) [1]	0,1 mg/m <sup>3</sup> (Sodium azide)
Slovakia	NPHV (OEL C)	0,3 mg/m <sup>3</sup>
Slovenia	OEL TWA	0,1 mg/m <sup>3</sup>
Slovenia	OEL STEL	0,3 mg/m <sup>3</sup>
Spain	VLA-ED (OEL TWA) [1]	0,1 mg/m <sup>3</sup> (indicative limit value)
Spain	VLA-EC (OEL STEL)	0,3 mg/m <sup>3</sup>
Sweden	NGV (OEL TWA)	0,1 mg/m <sup>3</sup>
Sweden	KTV (OEL STEL)	0,3 mg/m <sup>3</sup>
United Kingdom	WEL TWA (OEL TWA) [1]	0,1 mg/m <sup>3</sup>
United Kingdom	WEL STEL (OEL STEL)	0,3 mg/m <sup>3</sup>
Norway	Grenseverdi (OEL TWA) [1]	0,1 mg/m <sup>3</sup>
Norway	Korttidsverdi (OEL STEL)	0,3 mg/m <sup>3</sup> (value from the regulation)
Switzerland	MAK (OEL TWA) [1]	0,2 mg/m <sup>3</sup> (inhalable dust)
Switzerland	KZGW (OEL STEL)	0,4 mg/m <sup>3</sup> (inhalable dust)
Canada (Quebec)	Plafond (OEL C)	0,29 mg/m <sup>3</sup>
Canada (Quebec)	Plafond (OEL C) [ppm]	0,11 ppm (vapour)
USA - ACGIH	ACGIH OEL C	0,29 mg/m <sup>3</sup>
USA - ACGIH	ACGIH OEL C [ppm]	0,11 ppm
USA - NIOSH	NIOSH REL C	0,3 mg/m <sup>3</sup>
USA - NIOSH	NIOSH REL C [ppm]	0,1 ppm

Additional information : Personal air monitoring :. Room air monitoring. Recommended monitoring procedures

## **8.2. Exposure controls**

Engineering measure(s) : Provide adequate ventilation. Organisational measures to prevent /limit releases, dispersion and exposure. See Section 7 for information on safe handling .

Personal protective equipment : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hand protection : Wear chemically resistant gloves (tested to EN374) . The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Eye protection : Use suitable eye protection (EN166): Safety glasses with side shields

Body protection : Wear suitable protective clothing

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. Half-face mask (DIN EN 140). full face mask (DIN EN 136). Filter type: A (EN 141). The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used. (EN 137)

Thermal hazard protection : Not required for normal conditions of use. Use dedicated equipment.

Environmental exposure controls : Avoid release to the environment. Comply with applicable Community environmental protection legislation.

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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: liquid.
Colour	: Colourless.
Odour	: odourless.
Odour threshold	: No data available
pH	: 8,4 – 8,8
Relative evaporation rate (butylacetate=1)	: No data available
Melting / freezing point	: No data available
Freezing point	: No data available
Initial boiling point and boiling range	: No data available
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable, liquid
Vapour pressure	: No data available
Vapour density	: No data available
Relative density	: No data available
Solubility	: Water: completely soluble
Partition coefficient n-octanol/water	: No data available
Kinematic viscosity	: No data available
Dynamic viscosity	: No data available
Explosive properties	: Not applicable.
Oxidising properties	: Not applicable.
Explosive limits	: Not applicable

### 9.2. Other information

VOC content	: 0 %
Other properties	: Organic solvents : 0%.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reference to other sections 10.4 & 10.5.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

See Section 7 for information on safe handling.

### 10.5. Incompatible materials

See Section 7 for information on safe handling.

### 10.6. Hazardous decomposition products

Reference to other sections 5.2.

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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified (Based on available data, the classification criteria are not met)

Sodium azide (26628-22-8)	
LD50/oral/rat	27 mg/kg
LD50/dermal/rabbit	20 mg/kg

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)  
pH: 8,4 – 8,8

Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)  
pH: 8,4 – 8,8

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)

STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)

STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

Hemolysis Stability Solution	
Kinematic viscosity	No data available

Other information : Symptoms related to the physical, chemical and toxicological characteristics. For further information see section 4.

## SECTION 12: Ecological information

### 12.1. Toxicity

Environmental properties : According to the criteria of the European classification and labelling system, the substance/the product has not to be labelled as "dangerous for the environment".

Sodium azide (26628-22-8)	
LC50 - Fish [1]	0,8 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
LC50 - Fish [2]	0,7 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)

### 12.2. Persistence and degradability

Hemolysis Stability Solution	
Persistence and degradability	No data available.

### 12.3. Bioaccumulative potential

Hemolysis Stability Solution	
Partition coefficient n-octanol/water	No data available
Bioaccumulative potential	No data available.

### 12.4. Mobility in soil

Hemolysis Stability Solution	
Mobility in soil	No data available

### 12.5. Results of PBT and vPvB assessment

No data available

### 12.6. Other adverse effects

Other adverse effects : No data available.

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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product/Packaging disposal recommendations

: Avoid release to the environment. Dispose of empty containers and wastes safely. See Section 7 for information on safe handling. Refer to manufacturer/supplier for information on recovery/recycling. Recycling is preferred to disposal or incineration. If recycling is not possible, eliminate in accordance with local valid waste disposal regulations. Handle contaminated packages in the same way as the substance itself. Dispose of contaminated materials in accordance with current regulations.

European waste catalogue (2001/573/EC, 75/442/EEC, 91/689/EEC) : Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities

## SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.2. UN proper shipping name</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.4. Packing group</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

### 14.6. Special precautions for user

Special precautions for user : No data available

#### - Overland transport

Not applicable

#### - Transport by sea

Not applicable

#### - Air transport

Not applicable

#### - Inland waterway transport

Not applicable

#### - Rail transport

Not applicable

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Code: IBC : No data available.

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations



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Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content : 0 %

#### 15.1.2. National regulations

France

Installations classées :

Not applicable.

#### Germany

Regulatory reference : WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

#### Netherlands

Waterbezwaarlijkheid : B (4) - Weinig schadelijk voor in het water levende organismen

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

#### Denmark

Recommendations Danish Regulation : Pregnant/breastfeeding women working with the product must not be in direct contact with the product

#### 15.2. Chemical safety assessment

Not applicable

### SECTION 16: Other information

Abbreviations and acronyms:

	ABM = Algemene beoordelingsmethodiek
	ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin
	ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
	CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC
	IATA = International Air Transport Association
	IMDG = International Maritime Dangerous Goods Code
	LEL = Lower Explosive Limit/Lower Explosion Limit
	UEL = Upper Explosion Limit/Upper Explosive Limit
	REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
	BTT = Breakthrough time (maximum wearing time)
	DMEL = Derived Minimal Effect level
	DNEL = Derived No Effect Level
	EC50 = Median Effective Concentration

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	EL50 = Median effective level
	ErC50 = EC50 in terms of reduction of growth rate
	ErL50 = EL50 in terms of reduction of growth rate
	EWC = European waste catalogue
	LC50 = Median lethal concentration
	LD50 = Median lethal dose
	LL50 = Median lethal level
	NA = Not applicable
	NOEC = No observed effect concentration
	NOEL: no-observed-effect level
	NOELR = No observed effect loading rate
	NOAEC = No observed adverse effect concentration
	NOAEL = No observed adverse effect level
	N.O.S. = Not Otherwise Specified
	OEL = Occupational Exposure Limits - Short Term Exposure Limits (STELs)
	PNEC = Predicted No Effect Concentration
	Quantitative structure-activity relationship (QSAR)
	STOT = Specific Target Organ Toxicity
	TWA = time weighted average
	VOC = Volatile organic compounds
	WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)

Sources of key data used to compile the datasheet : Safety Data Sheet. Additional information : Manufacturer/Supplier. ECHA (European Chemicals Agency).

Training advice : Training staff on good practice. Manipulations are to be done only by qualified and authorised persons.

Other information : Classification - Assessment method: CLP Calculation method (Article 9).  
Physicochemical hazard assessment: Information given is based on tests on the mixture itself.

Full text of H- and EUH-statements:

Acute Tox. 2 (Oral)	Acute toxicity (oral), Category 2
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
H300	Fatal if swallowed.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH032	Contact with acids liberates very toxic gas.

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830  
Classification according to Regulation (EC) No. 1272/2008 [CLP]  
Labelling according to Regulation (EC) No. 1272/2008 [CLP]

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