



## KILCOSAN

Code: 02987

### Safety Data Sheet compliant with Regulation (EU) 2020/878

Version 7.0.0

Creation date : 25/10/18

Revision: 06/12/22

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The mixture meets the classification criteria provided for under Regulation (EC) No 1272/2008.

Substance corrosive to metals - Category 1	EUH 031: Contact with acids liberates toxic gas.
Skin corrosion - Category 1A	H290: May be corrosive to metals.
Serious damage to eyes - Category 1	H314: Causes severe skin burns and eye damage.
Hazardous to the aquatic environment – Chronic - Category 2	H318: Causes serious eye damage.
	H411: Toxic to aquatic life with long lasting effects.

## 2.2. Label elements

Labelling according to 1272/2008/EC Regulation:

Hazard pictograms(s) :



Signal word :  
Danger

Contains : Potassium hydroxide+ Sodium hydroxide+ Sodium hypochlorite

Hazard statement(s) :

H290: May be corrosive to metals.  
H314: Causes severe skin burns and eye damage.  
H411: Toxic to aquatic life with long lasting effects.  
EUH 031: Contact with acids liberates toxic gas.

Precautionary statement(s) :

P260: Do not breathe mist/vapours/spray.  
P273: Avoid release to the environment.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P301 + P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310: Immediately call a POISON CENTER or doctor/physician.  
P391: Collect spillage.

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P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

### 2.3. Other hazards

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

Not applicable as this involves a mixture.

### 3.2. Mixtures

Chemical nature of the mixture : LIQUID CHLORINATED ALKALI

Substance(s)	CAS number(s)	EINECS number(s)	index	No registration REACH	Classification according to Regulation (EC) 1272/2008	SCL M-factor ATE	Type
5% <= Sodium hydroxide < 10%	1310-73-2	215-185-5	011-002-00-6	01-2119457892-27	Skin Corr. 1A H314 Met. Corr. 1 H290	C ≥ 5% Skin Corr. 1A H314 2% ≤ C < 5% Skin Corr. 1B H314 0.5% ≤ C < 2% Skin Irrit. 2 H315 Eye Irrit. 2 H319	(1) (2)
1% <= Sodium hypochlorite < 5%	7681-52-9	231-668-3	017-011-00-1	Biocidal active substance, regarded as already registered	Met. Corr. 1 H290 Skin Corr. 1B H314 STOT SE 3 H335 Aquatic Acute 1 H400 Aquatic Chronic 1 H410 EUH 031	C ≥ 5%  M Factor (Acute) 10 M Factor (Chronic) 1	(1)
1% <= Potassium hydroxide < 5%	1310-58-3	215-181-3	019-002-00-8	01-2119487136-33	Acute Tox. 4 (oral) H302 Skin Corr. 1A H314 Met. Corr. 1 H290	C ≥ 5% Skin Corr. 1A H314 2% ≤ C < 5% Skin Corr. 1B H314 0.5% ≤ C < 2% Skin Irrit. 2 H315 Eye Irrit. 2 H319	(1) (2)

#### Type

- (1) : Substance classified as hazardous for health and/or the environment  
 (2) : Substance with an exposure limit at the work station.  
 Substance of very high concern candidate for the authorisation procedure:  
 (3) : Substance considered as PBT (persistent, bioaccumulable, toxic)  
 (4) : Substance considered as vPvB (very persistent, very bioaccumulable)  
 (5) : Substance considered as carcinogenic category 1A  
 (6) : Substance considered as carcinogenic category 1B  
 (7) : Substance considered as mutagenic category 1A

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(8) : Substance considered as mutagenic category 1B  
(9) : Substance considered as reprotoxic category 1A  
(10) : Substance considered as reprotoxic category 1B  
(11) : Substance considered as endocrine disrupter  
(12) : Other substance considered hazardous to health or the environment  
(N) : Nanomaterial

Full text of H- and EUH- phrases : see section 16.

### SECTION 4: FIRST AID MEASURES

#### 4.1. Description of first aid measures

General indications:

Take the contaminated clothes and shoes off immediately. Wash them before wearing them again.  
In case of faintness , get medical advice/attention. Show this safety data sheet to the doctor.

In the event of inhalation :

Bring to fresh air.  
Put into practice respiratory help procedure if needed and get medical advice immediately.

In the event of contact with the skin :

Take off immediately all contaminated clothing.  
Wash immediately with plenty of water for 15 minutes at least.  
Immediately call a POISON CENTER or doctor/physician.

In the event of contact with the eyes :

Rinse at once with a soft stream of water for at least 15 minutes, eyes wide open.  
Remove contact lenses if present and easy to do. Continue rinsing.  
Immediately call a POISON CENTER or doctor/physician.

In the event of ingestion :

Rinse mouth.  
Do NOT induce vomiting.  
Get medical advice.

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

Skin contact : Corrosive : Causes severe burns.

Eye contact : Causes serious eye damage.

Ingestion : Causes severe burns in mouth and digestive tract.  
Risk of perforating digestive tracts.

Inhalation : May cause a respiratory system irritation.

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

Treatments : Symptomatic treatment

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#### SECTION 5: FIREFIGHTING MEASURES

##### 5.1. Extinguishing media

Suitable extinguishing media :  
Agents compatible with other products involved into fire.

Unsuitable extinguishing media :  
None from our knowledge.

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

KILCOSAN is non-flammable.  
However, in contact with certain metals (aluminium, zinc...), release of flammable and/or explosive hydrogen if ignited.

##### 5.3. Advice for firefighters

Wear independent respiratory equipment and protective suit.  
Collect contaminated firefighting water separately, must not be discharged into the drains.  
Keep containers cool by spraying with water if exposed to fire.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

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

###### 6.1.1. For non-emergency personnel :

Evacuate non-essential staff and those not equipped with individual protection apparatus.

###### 6.1.2. For emergency responders :

Evacuate the personnel to a safe location.  
Keep people upwind and away from the location of the flow/leak.  
Use personal protection equipment.

##### 6.2. Environmental precautions

Intervention limited to trained staff.  
Do not discharge the product directly to sewer or to environment.  
Take as soon as possible all incompatible materials away.

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

Small spillage :  
Pump in a reservoir of help.

Large spillage :

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Mark out, soak up with an inert absorbant and pump in an emergency tank.  
Never return spills in original containers for re-use.  
Keep in suitable, properly labelled and closed containers for disposal.

#### 6.4. Reference to other sections

Respect protective measures presented at heading 8.  
Refer to section 13 for the elimination.

### SECTION 7: HANDLING AND STORAGE

#### 7.1. Precautions for safe handling

Do not breathe vapour.  
Avoid contact with skin, eyes and clothing.  
Do not breathe spray.  
Do not eat, drink or smoke in work area. Avoid projections during use.  
Do not mix with an acid.  
Take off immediately all contaminated clothing.  
Operate in a well ventilated place.

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

##### 7.2.1. Storage :

Keep only in the original container.  
Keep container closed.  
Keep in a cool place.  
Keep away from products sensitive to chlorinated alkalis.

##### 7.2.2. Packaging or wrapping materials :

High density polyethylene recommended.

#### 7.3. Specific end use(s)

KILCOSAN is for use as a biocide.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control parameters

Exposure limit values :

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Substance	CAS number	Country	Type	Value	Unit	Comments	source
Chlorine	7782-50-5	GBR	OEL Short term	0,5	ppm		International limit values for chemical agents
				1,5	mg/m <sup>3</sup>		International limit values for chemical agents
Potassium hydroxide	1310-58-3	GBR	OEL Short term	2	mg/m <sup>3</sup>		International limit values for chemical agents
			OES 15 min	2	mg/m <sup>3</sup>		Health & safety commission
			ELV (Exposure limit value) :	2	mg/m <sup>3</sup>		
- Nitrogen trichloride	10025-85-1	FRA	VLCT Short term	1,5	mg/m <sup>3</sup>	Valeur limite de confort déterminée par l'INRS	
			VLEP 8h	0,8	mg/m <sup>3</sup>	Valeur limite de confort déterminée par l'INRS	

### 8.2. Exposure controls

According to the requirements of Directive 98/24 /EC, the employer is required to conduct a risk assessment and implement appropriate risks management measures.

\* For any situation where the absence of risk is not proven, he must consider the substitution or reduction of risk by improving in priority processes used and collective protection measures. The effectiveness of the solutions implemented will be checked by measurement in comparison to the statutory limit values for substances defined in Section 8.1.

\* If the risk remains after these corrective actions, he must always check by routinely measuring compliance with regulatory OEL if they exist in section 8.1 and apply all the individual protective measures given in section 8.2.

\* When formalized risk assessment indicates a low risk to workers' health, control of compliance with regulatory OEL may not be considered and all individual protection measures is not always mandatory.

#### 8.2.1. Appropriate engineering controls :

Ensure adequate ventilation.

Apply the necessary technical measures to comply with the professional exposure limit values.

#### 8.2.2. Individual protection measures, such as personal protective equipment :

Eye/face protection :

Use safety glasses or facial screen in conformity with the EN 166 standard.



Hand protection :

Use chemical resistant gloves approved to EN 374.

Examples of preferred materials for insulating gloves:

Butyl rubber.

Nitrile rubber.

Do not wear polyvinyl alcohol (PVA) gloves.

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#### Skin protection :

Wear boots and a protective cloth with chemical resistance.



#### Respiratory protection :

During handling operations that cause vapours to form, wear a full mask compliant with standard EN 136 fitted with a filter (compliant with standard EN 141 or EN 14387) of type:

B: Inorganic gases and vapors.

During applications that cause aerosols to form, wear a half-mask in compliance with the European standard EN 140 or a complete mask in conformity with the European standard EN 136 equipped with a filter (in conformity with the European standard EN 143) of the following type:

P2: Particles, solid aerosols and liquids

It is possible to combine the anti-vapor filters and anti-aerosols.



#### Thermal hazards :

Not applicable

#### Health measures :

Safety shower and eye wash fountain near to workplace.

After using, wash systematically all personal protective equipment.

#### 8.2.3. Environmental exposure controls :

Do not discharge the product directly to sewer or to environment.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

Appearance	Clear liquid
Colour	Yellow
Odour	Not applicable
Odour threshold	Not available
Freezing point	Not available
Melting point	Not applicable
Boiling point	Not available



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Flammability	Not applicable
Lower explosive limit	Not applicable
upper explosive limit	Not applicable
Flash point	Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature	Not available
Pure pH	14
pH value at 10g/l	11.9
kinematic viscosity	Not available
Solubility in water	Soluble in water in all proportions
Solubility	Not applicable
Partition coefficient: n-octanol/water	Not available
Vapour pressure	Not available
Mass density	1.2 g/cm <sup>3</sup>
Relative density	1.2
Vapour density	Not applicable
Particle characteristics	Not applicable

#### 9.2. Other information

Explosive properties	Not applicable
Oxidising properties	Not applicable
Viscosity	Not available
Evaporation rate:	Not available

### SECTION 10: STABILITY AND REACTIVITY

#### 10.1. Reactivity

Hazards linked to exothermal reactions.

#### 10.2. Chemical stability

Stable in the recommended storage and handling conditions.

#### 10.3. Possibility of hazardous reactions

Exothermic reactions with acids.

#### 10.4. Conditions to avoid

Light, heat.

#### 10.5. Incompatible materials

Light metals and/or colored.  
Acids.

#### 10.6. Hazardous decomposition products

Contact with acids liberates gaseous chlorine.  
In contact with certain metals (aluminium, zinc...), release of flammable and/or explosive hydrogen if ignited.

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These data are given for the concentrated mixture. The use of the mixture under its diluted form must be performed in conformity with data given by the technical data sheet and the technical adviser.

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1. Information on hazard classes as defined in Regulation (EC) N°1272/2008**Substance-related data:

## Acute toxicity

Potassium hydroxide : LD 50 - oral rat (OECD 425): 333 - 388 mg/kg bw. Harmful if swallowed. - MSDS supplier  
Sodium hypochlorite : LD 50 - oral rat > 2,000 mg/kg. - solutions, 12%< active chlorine<16% - MSDS supplier  
Sodium hypochlorite : LD 50 - dermal rabbit > 2,000 mg/kg. - solutions, 12%< active chlorine<16% - MSDS supplier  
Sodium hydroxide : LD 50 - dermal rat 1,350 mg/kg. - MSDS supplier  
Potassium hydroxide ( 50 ) : LD 50 - oral 333 - 388 mg/kg. - MSDS supplier

## Skin corrosion/irritation

Sodium hydroxide ( 50% ) : Cutaneous contact rat . Corrosive to the skin - MSDS supplier  
Sodium hydroxide + Sodium hypochlorite : Skin irritation . Corrosive. - MSDS supplier  
Potassium hydroxide ( 50% ) : Skin irritation . Causes severe burns. - MSDS supplier  
Sodium hydroxide ( 50% ) : Skin corrosion/irritation . Causes severe burns. - MSDS supplier  
Sodium hydroxide ( 50% ) : Skin corrosion/irritation . Causes severe burns. - MSDS supplier

## Serious damage to eyes/eye irritation

Sodium hydroxide ( 50% ) : Eye contact : . corrosive to the eyes - MSDS supplier  
Sodium hydroxide + Sodium hypochlorite : Eye irritation . Corrosive. - MSDS supplier  
Potassium hydroxide ( 50% ) : Serious damage to eyes/eye irritation . Serious damage to eyes - MSDS supplier  
Sodium hydroxide ( 50% ) : Serious damage to eyes/eye irritation . corrosive to the eyes - MSDS supplier  
Sodium hydroxide ( 50% ) : Serious damage to eyes/eye irritation . Serious damage to eyes - MSDS supplier

## Respiratory tracts irritation

Sodium hydroxide ( 50% ) : Respiratory tracts irritation . Fog inhalation is irritant for respiratory tract - MSDS supplier

## Mutagenicity

Sodium hydroxide : . Not mutagenic - MSDS supplier

## Carcinogenicity

Sodium hydroxide : mouse . Not carcinogenic - MSDS supplier

Mix-related data: :

## Acute toxicity

. Not determined

## Skin corrosion/irritation

Skin corrosivity . The mix is considered to be corrosive for the skin under the criteria of Regulation 1272/2008/EC.

## Serious damage to eyes/eye irritation

Ocular corrosivity . Causes serious eye damage according to the criteria of Regulation 1272/2008/EC.

## Respiratory / skin sensitisation

Skin sensitisation . The mixture is not considered as a skin sensitizer according to 1272/2008/EC Regulation.

Respiratory sensitisation . The mixture is not considered as a respiratory sensitizer according to 1272/2008/EC Regulation.

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#### Mutagenicity

. The classification criteria are not met given the available data.

#### Carcinogenicity

. The classification criteria are not met given the available data.

#### Reproductive toxicity

. The classification criteria are not met given the available data.

#### Specific target organ toxicity - single exposure

. The classification criteria are not met given the available data.

#### Specific target organ toxicity - repeated exposure

. The classification criteria are not met given the available data.

#### Aspiration hazard

. The classification criteria are not met given the available data.

#### Most important symptoms and effects, both acute and delayed :

Skin contact : Corrosive : Causes severe burns.

Eye contact : Causes serious eye damage.

Ingestion : Causes severe burns in mouth and digestive tract.

Risk of perforating digestive tracts.

Inhalation : May cause a respiratory system irritation.

## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

Not concerned

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. à 12.4. Toxicity - Persistence and degradability - Bioaccumulative potential - Mobility in soil

#### Substance-related data:

##### Acute toxicity

Sodium hydroxide : LC 50 - 96 h fishes (Gambusia affinis) 35 - 189 mg/L. - MSDS supplier

Sodium hypochlorite : EC 50 - 48h Aquatic invertebrates 0.01 - 0.1 mg/L. - solutions, 12%< active chlorine<16% - MSDS supplier

##### Degradability

Sodium hydroxide ( 50% ) : Biodegradability aerobic . Not applicable - MSDS supplier

Sodium hydroxide ( 50% ) : Biodegradability anaerobic . Not applicable - MSDS supplier

Sodium hydroxide ( 50% ) : Half life air 13 seconds. Degradation product = sodium carbonate - MSDS supplier

Sodium hydroxide ( 50% ) : Water. . Instantaneous ionization; Degradation products : salts - MSDS supplier

Sodium hydroxide ( 50% ) : soil . Ionization / neutralization - MSDS supplier

##### Bioaccumulation

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Sodium hydroxide ( 50% ) : . Not applicable - MSDS supplier

#### Mobility

Sodium hydroxide ( 50% ) : air . Instantaneous degradation - MSDS supplier

Sodium hydroxide ( 50% ) : Water. . Important solubility and mobility - MSDS supplier

Sodium hydroxide ( 50% ) : soil/sediments . Important solubility and mobility; Contamination of ground water in case of rain - MSDS supplier

#### Mix-related data:

##### Acute toxicity

fishes . The acute toxicity test on fish was not performed to minimise the tests on vertebrates.

EC 50 - 48hours daphnia (Daphnia magna) (OECD 202): > 1 mg/L. The product has not been tested. The information comes from structure or analogue composition products.

algae . An acute toxicity test for algae is not relevant: sodium hypochlorite cannot be tested under constant light (mandatory test condition).

##### Chronic toxicity

. No data available.

##### Degradability

. No data available.

##### Bioaccumulation

. No data available.

##### Mobility

. No data available.

#### Conclusion:

The mixture is considered to be dangerous for the environment according to 1272/2008/EC Regulation.

#### 12.5. Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB

#### 12.6 Endocrine disrupting properties

Not concerned

#### 12.7. Other adverse effects

No additional information available.

### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1. Waste treatment methods

##### Treatment of the mixture:

Do not discharge the product directly to sewer or to environment.

Comply with Directive 2008/98/EC of 19/11/2008 amended, relating to waste and to Decision 2000/532/

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EC (amended ultimately by Decision 2014/955/EC) that establishes a list of hazardous waste that must be taken to an approved centre.

Packaging treatment :

Rinse thoroughly the packaging with water and treat the effluent like wastes.

Comply with Directive 2008/98/EC of 19/11/2008 amended, relating to waste and to Decision 2000/532/EC (amended ultimately by Decision 2014/955/EC) that establishes a list of hazardous waste that must be taken to an approved centre.

**SECTION 14: TRANSPORT INFORMATION**

ROAD TRANSPORT: Rail/Route (RID/ADR)

14.1 UN no : 1719

14.2 UN proper shipping name :

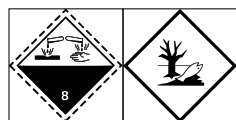
CAUSTIC ALKALI LIQUID, N.O.S. (Potassium hydroxide + Sodium hydroxide + Sodium hypochlorite)

14.3 Transport hazard class(es) : 8

14.4 Packing group : II

Hazard identification number : 80

Label : 8



Tunnel code : (E)

14.5 Environmental hazard : Yes (Sodium hypochlorite)

14.6 Special precautions for user : No information.

Limited Quantity (QL): 1L

MARITIME TRANSPORT : IMDG

14.1 UN no :1719

14.2 UN proper shipping name : CAUSTIC ALKALI LIQUID, N.O.S. (Potassium hydroxide + Sodium hydroxide + Sodium hypochlorite)

14.3 Transport hazard class(es) : 8

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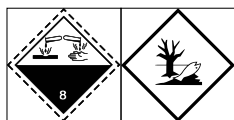
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14.4 Packing group : II

14.5 Environmental hazard

Marine pollutant : Yes (Sodium hypochlorite)

14.6 Special precautions for user : No information.

EmS number : F-A, S-B

Limited Quantity (QL): 1L

14.7 Maritime transport in bulk according to IMO instruments : Not concerned

### SECTION 15: REGULATORY INFORMATION

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

Regulation (EU) n°528/2012 concerning the making available on the market and use of biocidal products :  
Active ingredient: Sodium Hypochlorite, expressed in active chlorine

Regulations relating to the hazards from major accidents :  
SEVESO 3 Directive (2012/18/EC) : E2

Regulations relating to the classification, packaging and labelling of substances and mixtures :  
Regulation (EC) 1272/2008 amended.

Waste regulations :  
2008/98/EC Directive amended by 2015/1127/EC Directive - Regulation 1357/2014/EC  
Decision 2014/955/EC which establishes the list of hazardous waste.

Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals : Not concerned

Protection of workers :  
Directive 98/24/EC of 07/04/1998 on the protection of the health and safety of workers from the risks related to chemical agents at work.

Regulation (EU) 2019/1021 of 20 June 2019 on persistent organic pollutants : Not applicable

Regulation (EC) 1005/2009 amended on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors:  
Not concerned

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Regulation (EC) 648/2004 :

In conformity with the regulation in force on detergents: Regulation (EC) N° 648/2004.

Ingredient datasheet for the medical staff is available upon written request.

Contains :

< 5% Chlorine-based bleaching agents, Polycarboxylates

Disinfectants

Comply with national and local legislation.

UN Globally Harmonised System (GHS) on Classification and Labelling of Chemical (GB CLP - SI 2020 No. 1567) and UK REACH (SI 2020 No. 1577)

### 15.2. Chemical safety assessment

This safety data sheet has been drafted taking into account the information from exposure scenarios for the substances making up the mixture.

## SECTION 16: OTHER INFORMATION

The safety data sheet is additional to the technical data sheet but does not replace it. The information given here in is to the best of our knowledge correct and is given in good faith. We must also draw the user's attention on potential risks of the product is used for other purposes for which the product is known.

In no way does it exempt users from being aware of and complying with regulations applicable to their activity. It is their sole responsibility to take all necessary precautions in accordance to the usage of the product they are aware of.

Regulations are only stated in order to help users fulfill the duties involved in the use of the product.

This description should not be considered as exhaustive. It does not exempt users from ensuring if other demands need to be complied with-according to other laws than the ones hereby stated and applicable to holding and usage of the product-demands for which they will remain sole responsibility.

Section(s) modified compared with the previous version :

Revision of the safety data sheet according to (EU) 2020/878 Regulation.

List of H phrases referred to in section 3 :

EUH 031 : Contact with acids liberates toxic gas.

H290 : May be corrosive to metals.

H302 : Harmful if swallowed.

H314 : Causes severe skin burns and eye damage.

H335 : May cause respiratory irritation.

H400 : Very toxic to aquatic life.

H410 : Very toxic to aquatic life with long lasting effects.

Sources of key data used to compile the data sheet :

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Historical :  
Version 7.0.0  
Cancels and replaces previous version 6.1.