

Virophor 2.8%  
Code: 038R0

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

Version 7.0.0  
Creation date : 24/11/20  
Revision: 04/08/22  
Print Date : 04/08/22

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Trade name Virophor 2.8%

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

Use of the product

ACID LIQUID  
LIVESTOCK HOUSING  
Disinfection of footwear - immersion : Indoor/Outdoor  
Animal accommodation surface disinfection for the control of specific diseases -spray  
Routine animal accommodation surface disinfection - spray : Indoor

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

Company identification

Kilco (International) Ltd  
Broomhouses 2 Industrial Estate  
Old Glasgow Road  
Lockerbie  
United Kingdom  
DG11 2SD  
+44 (0) 1576 205480

#### 1.4. Emergency telephone number

Emergency phone number

Emergency direct number ( 24 hours a day, 7 days a week) :  
+65 3165 2217 (Asian area, Pacific area)  
+44 1273 289451 (European area)  
+1 215 207 0061 (Americas area)  
+44 1235 239671 (Middle eastern countries and African area)

### SECTION 2: HAZARDS IDENTIFICATION

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

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

Skin corrosion - Category 1A	H314: Causes severe skin burns and eye damage.
Skin sensitisation - Category 1B	H317: May cause an allergic skin reaction.
Serious damage to eyes - Category 1	H318: Causes serious eye damage.

### 2.2. Label elements

Labelling according to 1272/2008/EC Regulation:

Hazard pictograms(s) :



Signal word :  
Danger

Contains : Phosphoric Acid+ Sulphuric acid

Hazard statement(s) :

H314: Causes severe skin burns and eye damage.  
H317: May cause an allergic skin reaction.

Precautionary statement(s) :

P260: Do not breathe spray.  
P264: Wash hands thoroughly after handling.  
P272: Contaminated work clothing should not be allowed out of the workplace.  
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.  
P321: Specific treatment (see on this label).  
P333 + P313: If skin irritation or rash occurs: Get medical advice/attention.  
P363: Wash contaminated clothing before reuse.  
P405: Store locked up.  
P501: Disposal of the contents/container must be performed in an approved incinerator or by means of

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another appliance for heat destruction.

### 2.3. Other hazards

The mixture does not contain substance identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. in concentration greater than 0.1%.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

Not applicable as this involves a mixture.

### 3.2. Mixtures

Chemical nature of the mixture : ACID LIQUID

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Substance(s)	CAS number(s)	EINECS number(s)	index	No registration REACH	Classification according to Regulation (EC) 1272/2008	SCL M-factor ATE	Type
10% <= Alcohols C9-11, ethoxylated <= 20%	68439-46-3				Acute Tox. 4 (oral) H302 Eye Dam. 1 H318		(1)
10% <= Phosphoric Acid < 20%	7664-38-2	231-633-2	015-011-00-6	01-2119485924-21 01-2119485924-24	Skin Corr. 1B H314 Met. Corr. 1 H290 Acute Tox. 4 (oral) H302	C ≥ 25% Skin Corr. 1B H314 10% ≤ C < 25% Skin Irrit. 2 H315 Eye Irrit. 2 H319	(1)
5% <= Sulphuric acid < 10%	7664-93-9	231-639-5	016-020-00-8	01-2119458838-20	Skin Corr. 1A H314 Met. Corr. 1 H290	C ≥ 15% Skin Corr. 1A H314 5% ≤ C ≤ 15% Skin Irrit. 2 H315 5% ≤ C ≤ 15% Eye Irrit. 2 H319	(1)
1% <= Iodine < 5%	7553-56-2	231-442-4	053-001-00-3	Biocidal active substance, regarded as already registered	Acute Tox. 4 (oral) H302 Acute Tox. 4 (dermal) H312 Acute Tox. 4 (inhalation) H332 Skin Irrit. 2 H315 Eye Irrit. 2 H319 STOT SE 3 H335 STOT RE 1 H372 Aquatic Acute 1 H400	M Factor (Acute) 1	(1)
1% <= Alcohols, C12-15, ethoxylated < 5%	68131-39-5				Acute Tox. 4 (oral) H302 Eye Dam. 1 H318 Aquatic Chronic 3 H412		(1)

### 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
- (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

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### 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 :

To transport the person to the air, to maintain it with the heat and rest.

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.  
If skin irritation or rash occurs: Get medical advice/attention.

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.  
Send to hospital.

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

Skin contact : Corrosive : Causes severe burns.  
May cause sensitization by skin contact.

Eye contact : Causes serious eye damage.

Ingestion : Can cause severe damage to the stomach or oesophagus.  
Causes severe burns in mouth and digestive tract.

Inhalation : May cause a respiratory system irritation.

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

Treatments : Symptomatic treatment

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

Suitable extinguishing media :

Agents compatible with other products involved into fire.  
Waterspray.

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Unsuitable extinguishing media :  
High pressure water jet

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

Possible formation of toxic gas in case of fire.

### 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 :

Absorb with such materials as: Sand. Vermiculite.  
Recover in a reservoir of help.

Large spillage :

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

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Product to be handled following good industrial hygiene and safety procedures.  
Do not breathe spray.  
Avoid contact with skin, eyes and clothing.  
Take off immediately all contaminated clothing.  
Wash the hands and any other zone exposed with a soft soap and water, before eating, drinking, smoking, and before leaving work.  
Do not eat, drink or smoke in work area. Avoid projections during use.  
Avoid contact with strong acids and oxidizing agents.

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

#### 7.2.1. Storage :

Storage in the original, closed packaging, between +4°C and +25°C.  
Do not expose to direct sunlight.  
Keep protected from frost.  
Keep away from incompatible matters (see heading 10).

#### 7.2.2. Packaging or wrapping materials :

High density polyethylene recommended.

### 7.3. Specific end use(s)

Virophor 2.8% is for use as a biocide.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Exposure limit values :

Substance	CAS number	Country	Type	Value	Unit	Comments	source
Phosphoric Acid	7664-38-2	EU	OEL 8h	1	mg/m <sup>3</sup>	Indicative Occupational Exposure Limit Value	International limit values for chemical agents
			OEL Short term	2	mg/m <sup>3</sup>	Indicative Occupational Exposure Limit Value	International limit values for chemical agents

### 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.

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### 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.

Permeation time  $\geq$  8h

Examples of materials for insulating gloves:

Neoprene.

PVC

Butyl rubber.



Skin protection :

Wear boots and a protective cloth with chemical resistance.



Respiratory protection :

At the time of applications by spraying, wear a full mask compliant with standard EN 136 fitted with a filter (compliant with standard EN 143) of type:

AE2 type filtration.

Thermal hazards :

Not applicable

Health measures :

Safety shower and eye wash fountain near to workplace.

Handle in accordance with good industrial hygiene practices and the safety instructions.

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.



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### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

Appearance	Viscous liquid
Colour	Dark brown
Odour	Not available
Odour threshold	Not available
Freezing point	Not available
Melting point	Not available
Boiling point	Not available
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	< 1.5 ((20°C))
pH value at 10g/l	< 2
kinematic viscosity	Not applicable
Solubility in water	dissolvable
Solubility	Not applicable
Partition coefficient: n-octanol/water	Not available
Vapour pressure	Not available
Mass density	1.16 g/cm <sup>3</sup>
Relative density	1.16
Vapour density	Not available
Particle characteristics	Not applicable

#### 9.2. Other information

Explosive properties	Not applicable
Oxidising properties	Not applicable
Viscosity	36 cSt
Surface tension	29.6±0.3 mN/m
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

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Not to mix with sodium hypochlorite (bleach) or another product of bleaching. The mixture which would result from this would cause a violent exothermic reaction, followed by a release of chlorine gas.

### 10.4. Conditions to avoid

High temperatures.

### 10.5. Incompatible materials

Chlorine-based bleaching agents  
Alkalines.  
Chlorinated alkalis.  
Light metals and/or colored.

### 10.6. Hazardous decomposition products

In contact with certain metals (aluminium, zinc, copper...), release of hydrogen whose mixtures with air are explosive.

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

Phosphoric Acid : LC 50 - inhalation - 1h rat 3.846 mg/L. - MSDS supplier  
Phosphoric Acid : LD 50 - dermal rabbit 2,740 mg/kg. - MSDS supplier  
Phosphoric Acid : LD 50 - oral rat 500 mg/kg. - MSDS supplier  
Iodine : LD 50 - oral rat 315 mg/kg. - MSDS supplier  
Iodine : LD 50 - dermal rabbit 1,425 mg/kg. - MSDS supplier  
Iodine : LC 50 - inhalation - 4h rat (OECD 403): 4.588 mg/L. - Dust - MSDS supplier  
Alcohols C9-11, ethoxylated ( 100% ) : LD 50 - oral rat < 2,000 mg/kg. - MSDS supplier  
Alcohols, C12-15, ethoxylated : LC 50 - inhalation - 4h rat 1.5 - 20.7 mg/L. - MSDS supplier

##### Skin corrosion/irritation

Iodine : Skin irritation . Irritating - MSDS supplier

##### Serious damage to eyes/eye irritation

Iodine : Eye irritation . Irritating - MSDS supplier  
Alcohols, C12-15, ethoxylated : Eye contact : . Risk of serious damage of eyes - MSDS supplier  
Alcohols C9-11, ethoxylated : Serious damage to eyes/eye irritation . Serious damage to eyes - MSDS supplier

##### Sensitisation

Iodine : Skin sensitisation (OECD 429): . Not sensitising - MSDS supplier

##### Reproductive toxicity

Iodine : NOAEL 10 mg/kg/j. - MSDS supplier

##### Specific target organ toxicity - single exposure

Iodine : Inhalation : . Irritating to respiratory system. - MSDS supplier

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Specific target organ toxicity - repeated exposure  
Iodine : NOAEL - oral - 100days rat 0.375 mg/kg bw day. Causes damage to the thyroid following repeated or prolonged exposure (STOT-RE Cat. 1). - 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 (OECD 429): . The mix is considered to cause cutaneous sensitisation under Regulation 1272/2008/EC.  
Respiratory sensitisation . The mixture is not considered as a respiratory sensitizer according to 1272/2008/EC Regulation.

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.  
May cause sensitization by skin contact.

Eye contact : Causes serious eye damage.

Ingestion : Can cause severe damage to the stomach or oesophagus.  
Causes severe burns in mouth and digestive tract.

Inhalation : May cause a respiratory system irritation.

## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

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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

Phosphoric Acid : LC 50 - 96h fishes 3 - 3.25 mg/L. - MSDS supplier  
Iodine : EC 50 - 48h daphnia (Daphnia magna) 0.55 mg/L. - MSDS supplier  
Iodine : LC 50 - 96h fishes (Oncorhynchus mykiss) 1.67 mg/L. - MSDS supplier  
Iodine : EC 50 - 72h algae (Desmodesmus subspicatus) 0.13 mg/L. - MSDS supplier  
Phosphoric Acid : EC 50 - 72H algae (OECD 201): > 100 mg/L.  
Phosphoric Acid : EC 50 - 48h daphnia (OECD 202): > 100 mg/L. - MSDS supplier  
Iodine : NOEC - 14days soil 1,000 mg/kg. - MSDS supplier  
Sulphuric acid ( 100% ) : EC 50 - 24hours daphnia (ISO 6341): 29 mg/L. - MSDS supplier  
Alcohols, C12-15, ethoxylated : LC 50 - 96h fishes 1.4 - 1.6 mg/L. - MSDS supplier

###### Chronic toxicity

Alcohols, C12-15, ethoxylated : EC 10 - 72h algae 0.092 - 0.151 mg/L. - MSDS supplier

###### ABIOTIC DEGRADABILITY

Iodine : . Fast hydrolysis - MSDS supplier

###### Bioaccumulation

Iodine : Log Pow 2.49 . - MSDS supplier

##### Mix-related data :

###### Acute toxicity

fishes . Not determined  
daphnia . Not determined  
algae . Not determined

###### 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

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### 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/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 : 1760

14.2 UN proper shipping name :  
CORROSIVE LIQUID, N.O.S. (Sulphuric acid + Phosphoric Acid)

14.3 Transport hazard class(es) : 8

14.4 Packing group : III  
Hazard identification number : 80  
Label : 8



Tunnel code : (E)

14.5 Environmental hazard : No

14.6 Special precautions for user : No information.

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Limited Quantity (QL): 5L

MARITIME TRANSPORT : IMDG

14.1 UN no :1760

14.2 UN proper shipping name : CORROSIVE LIQUID, N.O.S. (Sulphuric acid + Phosphoric Acid)

14.3 Transport hazard class(es) : 8



14.4 Packing group : III

14.5 Environmental hazard  
Marine pollutant : No

14.6 Special precautions for user : No information.  
EmS number : F-A, S-B

Limited Quantity (QL): 5L

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: Iodine

Regulations relating to the hazards from major accidents :  
SEVESO 3 Directive (2012/18/EC) : Not concerned

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 :

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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:

This product is regulated by Regulation (EU) 2019/1148:

All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

Regulation (EC) 648/2004 :  
Not concerned

Comply with national and local legislation.

### 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 :

H290 : May be corrosive to metals.

H302 : Harmful if swallowed.

H312 : Harmful in contact with skin.

H314 : Causes severe skin burns and eye damage.

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H315 : Causes skin irritation.

H318 : Causes serious eye damage.

H319 : Causes serious eye irritation.

H332 : Harmful if inhaled.

H335 : May cause respiratory irritation.

H372 : Causes damage to organs through prolonged or repeated exposure.

H400 : Very toxic to aquatic life.

H412 : Harmful to aquatic life with long lasting effects.

Sources of key data used to compile the data sheet :  
MSDS supplier

Historical :

Version 7.0.0

Cancel and replaces previous version 6.2.