

Viroshield

Code: 036U0

## Material Safety Data Sheet compliant with Regulation (EC) 2015/830

Version **6.1.0**

Creation date : **15/05/19**

Revision: **27/11/20**

Print Date : 08/01/21

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

#### 1.1. Product identifier

Trade name

Viroshield

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

Use of the product

Breeding disinfectant  
BREEDING  
BACTERICIDAL AND VIRUCIDAL DISINFECTING PRODUCT FOR  
MATERIALS, EQUIPMENT AND SURFACES

#### 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

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### 2.1. Classification of the substance or mixture

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

Acute toxicity - Category 4 (per oral route)	EUH 071: Corrosive to the respiratory tract.
Skin corrosion - Category 1B	H302: Harmful if swallowed.
Skin sensitisation - Category 1A	H314: Causes severe skin burns and eye damage.
Serious damage to eyes - Category 1	H317: May cause an allergic skin reaction.
Acute toxicity - Category 3 (inhalation)	H318: Causes serious eye damage.
Respiratory sensitisation - Category 1	H331: Toxic if inhaled.
	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Hazardous to the aquatic environment – Acute - Category 1	H400: Very toxic to aquatic life.
Hazardous to the aquatic environment – Chronic - Category 2	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 : Glutaraldehyde+ Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

Hazard statement(s) :

H302: Harmful if swallowed. H314: Causes severe skin burns and eye damage. H317: May cause an allergic skin reaction. H331: Toxic if inhaled. H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled. H410: Very toxic to aquatic life with long lasting effects. EUH 071: Corrosive to the respiratory tract.

Precautionary statement(s) :

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P260: Do not breathe mist/vapours/spray. P273: Avoid release to the environment. P280: Wear protective gloves/protective clothing/eye protection/face protection. P301 + P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P301 + P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P302 + P352: IF ON SKIN: Wash with plenty of soap and water. P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P304 + P341: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position 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. P501: Dispose of this product and its container in a hazardous or special waste collection centre, compliant with local, regional, national and/or international regulations.

### 2.3. Other hazards

No additional information available.

## 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)	No registration REACH	Classification according to Regulation 1272/2008/EC	Type
10% <= Glutaraldehyde < 20%	111-30-8	203-856-5	Biocidal active substance, regarded as already registered	Acute Tox. 3 (oral) H301 Acute Tox. 2 (inhalation) H330 Skin Corr. 1B H314 Resp. Sens. 1 H334 STOT SE 3 H335 Skin Sens. 1A H317 Aquatic Acute 1 H400 Aquatic Chronic 2 H411 M Factor (Acute) 1	(1)
5% <= Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides < 10%	68424-85-1	270-325-2	Biocidal active substance, regarded as already registered	Skin Corr. 1B H314 Acute Tox. 4 (oral) H302 Aquatic Acute 1 H400 Aquatic Chronic 1 H410 M Factor (Acute) 10 M Factor (Chronic) 1	(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

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

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

#### General indications:

- In case of faintness , get medical advice/attention. Show this safety data sheet to the doctor.
- The first aider must protect himself.
- Medical assistance absolutely necessary.
- Take the contaminated clothes and shoes off immediately.

#### In the event of inhalation :

- Apply artificial respiration immediately if the person stops breathing. An authorised person should administer oxygen to the victim with breathing difficulties unless he is capable of breathing properly. A 2.5% calcium gluconate dose in a normal saline solution can be sprayed in addition to the oxygen.
- Call a doctor immediately.
- Bring to fresh air.
- Get medical advice.

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In the event of contact with the skin :

Immediately call a POISON CENTER or doctor/physician.

Take off immediately all contaminated clothing.

Wash immediately with plenty of water for 15 minutes at least.

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.

Protect the intact eye.

Rinse the eyes for at least fifteen minutes with plenty of water holding the eyelids open so that they are not in contact with the eyeball during the rinsing process.

Remove contact lenses if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or doctor/physician.

In the event of ingestion :

Do NOT induce vomiting.

Do not induce swallowing anything to an unconscious subject.

Call a doctor immediately.

### 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 : Harmful if swallowed.

Causes severe burns in mouth and digestive tract.

Risk of perforating digestive tracts.

Inhalation : Toxic if inhaled.

### 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 :

Water spray, powder extinguisher, foam.

Agents compatible with other products involved into fire.

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Unsuitable extinguishing media :  
High pressure water jet

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

Fire or excessive heat may cause production of hazardous decomposition products.

- carbon monoxide (CO)
- carbon dioxide (CO<sub>2</sub>)
- hydrogen chloride (HCl)
- Nitric oxide ( NO<sub>x</sub> )

### 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.  
Remove all incompatible substances.

#### 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 :  
Wash with plenty of water.  
Absorb on inert material.

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.

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### 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

Avoid contact with skin, eyes and clothing.

Take off immediately all contaminated clothing.

Do not inhale vapour, aerosols, mist.

Do not eat, drink or smoke in work area. Avoid projections during use.

Do not mix with an alkali.

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

#### 7.2.1. Storage :

Store in a retention tank.

Keep only in original packaging.

Keep container closed.

Reacts with copper, aluminium, zinc and their alloys.

Keep away from products sensitive to acids.

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)

Viroshield 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
Glutaraldehyde	111-30-8	FRA	VLCT Short term	0,2	ppm	Valeur limite indicative	International limit values for chemical agents
				0,8	mg/m <sup>3</sup>	Valeur limite indicative	International limit values for chemical agents
			VLEP 8h	0,1	ppm	Valeur limite indicative	International limit values for chemical agents
				0,4	mg/m <sup>3</sup>	Valeur limite indicative	International limit values for chemical agents
		AUT	OEL 8h	0,1	ppm		International limit values for chemical agents
				0,4	mg/m <sup>3</sup>		International limit values for chemical agents
			OEL Short term	0,1	ppm		International limit values for chemical agents
				0,4	mg/m <sup>3</sup>		International limit values for chemical agents
		BEL	OEL Short term	0,05	ppm		International limit values for chemical agents
				0,21	mg/m <sup>3</sup>		International limit values for chemical agents
		CHE	OEL 8h	0,05	ppm		International limit values for chemical agents
				0,21	mg/m <sup>3</sup>		International limit values for chemical agents
			OEL Short term	0,1	ppm		International limit values for chemical agents
				0,42	mg/m <sup>3</sup>		International limit values for chemical agents
		DEU	OEL 8h	0,05	ppm		International limit values for chemical agents (German Committee on Hazardous Substances)
				0,2	mg/m <sup>3</sup>		International limit values for chemical agents (German Committee on Hazardous Substances)
				0,05	ppm		International limit values for chemical agents (German Research Foundation)
				0,24	mg/m <sup>3</sup>		International limit values for chemical agents (German Research Foundation)
			OEL Short term	0,1	ppm	STV 15 minutes average value A momentary value of 0,2 ml/m <sup>3</sup> (0,83 mg/gm <sup>3</sup> ) should not be exceeded.	International limit values for chemical agents (German Research Foundation)
				0,48	mg/m <sup>3</sup>	STV 15 minutes average value A momentary value of 0,2 ml/m <sup>3</sup> (0,83 mg/gm <sup>3</sup> ) should not be exceeded.	International limit values for chemical agents (German Research Foundation)
				0,1	ppm	15 minutes average value	International limit values for chemical agents (German Committee on Hazardous Substances)
				0,4	mg/m <sup>3</sup>	15 minutes average value	International limit values for chemical agents (German Committee on Hazardous Substances)
		DNK	OEL 8h	0,2	ppm		International limit values for chemical agents
				0,8	mg/m <sup>3</sup>		International limit values for chemical agents
			OEL Short term	0,2	ppm		International limit values for chemical agents
				0,8	mg/m <sup>3</sup>		International limit values for chemical agents
		ESP	OEL Short term	0,05	ppm	sen	International limit values for chemical agents
				0,2	mg/m <sup>3</sup>	sen	International limit values for chemical agents
		GBR	OEL 8h	0,05	ppm		International limit values for chemical agents
				0,2	mg/m <sup>3</sup>		International limit values for chemical agents
			OEL Short term	0,05	ppm		International limit values for chemical agents
				0,2	mg/m <sup>3</sup>		International limit values for chemical agents
		SWE	OEL Short term	0,1	ppm	Ceiling limit vaue	International limit values for chemical agents
				0,4	mg/m <sup>3</sup>	Ceiling limit vaue	International limit values for chemical agents
		NOR	OEL 8h	0,8	mg/m <sup>3</sup>		International limit values for chemical agents
			OEL Short term	0,2	ppm		International limit values for chemical agents
		POL	NDS 8h	0,4	mg/m <sup>3</sup>		International limit values for chemical agents



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Glutaraldehyde	111-30-8	POL	NDSch Short term	0,6	mg/m <sup>3</sup>	International limit values for chemical agents
		LVA	OEL 8h	5	mg/m <sup>3</sup>	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.

#### 8.2.1. Appropriate engineering controls :

Plan for suction of the vapours or sprays at their source of emission, as well as general ventilation of the premises.

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.

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Skin protection :

Wear boots and a protective cloth with chemical resistance.



Respiratory protection :

When exposed to the aerosols, wear a full mask compliant with standard EN 136 fitted with a filter (compliant with standard EN 143) of type:

P3: Particles, solid aerosols and liquids



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

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Appearance	Clear liquid
Colour	Blue
Odour	Lemon
Odour threshold	Not available
Pure pH	5
pH value at 10g/l	Not applicable
Freezing point :	Not available
Boiling point	Not available
Flash point	Not applicable
Evaporation rate:	Not available
Flammability	Not applicable
Vapour pressure	Not available
Vapour density	Not available
Mass density	1.03 g/cm³
Relative density	1.03
Solubility in water	soluble in all proportions
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not applicable
Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	Not applicable
Oxidising properties	Not applicable

#### 9.2. Other information

No additional information.

### SECTION 10: STABILITY AND REACTIVITY

#### 10.1. Reactivity

None under normal conditions of use.

#### 10.2. Chemical stability

Stable in the recommended storage and handling conditions.

#### 10.3. Possibility of hazardous reactions

Avoid contact with acids, strong alkalines and oxidizing agents.

#### 10.4. Conditions to avoid

Light, heat.

#### 10.5. Incompatible materials

Strong acids.  
 Strong basis  
 Strong oxidizing agents.  
 Aluminium  
 Light metals and/or colored.

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### 10.6. Hazardous decomposition products

Warming or fire can generate toxic gases (nitrogen oxides (NO<sub>x</sub>), carbon oxides).

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 toxicological effects

#### Substance-related data:

##### Acute toxicity

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides : LD 50 - oral rat (OECD 401): > 300 - 2,000 mg/kg. - MSDS supplier

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides ( 50% ) : LD 50 - oral rat 795 mg/kg. - MSDS supplier

Glutaraldehyde ( 50% ) : LC 50 - inhalation - 4h rat (OECD 403): 0.28 mg/L. - aerosol - MSDS supplier

Glutaraldehyde ( 50% ) : LD 50 - oral rat (OECD 401): 154 mg/L. - MSDS supplier

Glutaraldehyde ( 50% ) : LD 50 - dermal rabbit (OECD 402): > 2,000 mg/kg. - MSDS supplier

##### Corrosivity / Irritation

Glutaraldehyde ( 50% ) : Skin corrosivity rabbit (OECD 404): . Corrosive to the skin - MSDS supplier

##### Skin corrosion/irritation

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides : Cutaneous contact . Corrosive.; Causes severe burns. - MSDS supplier

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

Glutaraldehyde : Eye contact : . Corrosive. - MSDS supplier

##### Sensitisation

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides : Sensitisation . Not sensitising - MSDS supplier

Glutaraldehyde : Inhalation sensitisation . Sensitizing - MSDS supplier

Glutaraldehyde : Skin sensitisation man . May cause an allergic reaction - MSDS supplier

##### Respiratory / skin sensitisation

Glutaraldehyde ( 100% ) : Skin sensitisation mouse, guinea-pig . Skin sensitisation - MSDS supplier

Glutaraldehyde ( 100% ) : Respiratory sensitisation human . Sensitizing - MSDS supplier

##### Mutagenicity

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides : (Ames test): . Not mutagenic - MSDS supplier

##### Reproductive toxicity

Glutaraldehyde : Teratogenicity laboratory animals . Not teratogenic - MSDS supplier

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

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Glutaraldehyde : . May cause respiratory irritation. - MSDS supplier

Chronic toxicity

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides : NOEC - 72h algae (OECD 201): 0.001 - 0.01 mg/L. - MSDS supplier

#### Mix-related data:

Acute toxicity

LD 50 - oral rat (OECD 423): > 500 mg/kg.

LD 50 - dermal female rat (OECD 402): > 2,000 mg/kg.

Skin corrosion/irritation

Skin corrosivity male rat (EC B40): . Corrosive to the skin

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 mouse (OECD 429): . The mix is considered to cause cutaneous sensitisation under Regulation 1272/2008/EC.

Respiratory sensitisation . The mix is considered to cause respiratory sensitisation under Regulation 1272/2008/EC.

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.

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

Inhalation : Toxic if inhaled.

### SECTION 12: ECOLOGICAL INFORMATION

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

##### Substance-related data:

###### Acute toxicity

Glutaraldehyde : EC 50 - 48h Aquatic invertebrates (*Crassostrea virginica*) 0.78 mg/L. - MSDS supplier

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides : LC 50 - 96h fishes 0.1 - 1 mg/L. - MSDS supplier

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides : EC 50 - 48h daphnia 0.01 - 0.1 mg/L. - MSDS supplier

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides : IC 50 - 72h algae 0.01 - 0.1 mg/L. - MSDS supplier

Glutaraldehyde : LC 50 - 96h fishes (*Oncorhynchus mykiss*) 0.8 mg/L. - MSDS supplier

Glutaraldehyde : EC 50 - 72h algae 0.6 mg/L. - MSDS supplier

###### Chronic toxicity

Glutaraldehyde : NOEC - 72h algae 0.025 mg/L. - MSDS supplier

###### Degradability

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides ( 100% ) : Ultimate aerobic biodegradability - 28days

(OECD 301 D): > 60 %. Easily biodegradable. - MSDS supplier

Glutaraldehyde : 28days (OECD 301A): 83 %. Easily biodegradable. - MSDS supplier

###### Bioaccumulation

Glutaraldehyde : Log Pow - 0.333 . Not bioaccumulative - MSDS supplier

##### Mix-related data:

###### Acute toxicity

. Not determined

###### Chronic toxicity

. No data available.

###### Degradability

. No data available.

###### Bioaccumulation

. No data available.

###### Mobility

. No data available.

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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. 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)

UN no : 2922

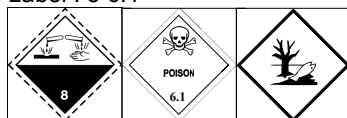
UN proper shipping name :CORROSIVE LIQUID,TOXIC, N.O.S (Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides+Glutaraldehyde)

Transport hazard class(es) : 8

Packing group : II

Hazard code : 86

Label : 8 6.1



Tunnel code : (E)

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Environmental hazard : Yes (Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides + Glutaraldehyde)

Special precautions for user : No information.

Limited Quantity (QL): 1L

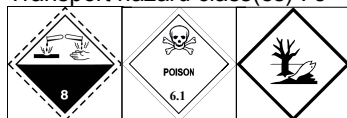
### MARITIME TRANSPORT :

IMDG

UN no :2922

UN proper shipping name : CORROSIVE LIQUID, TOXIC, N.O.S (Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides+Glutaraldehyde)

Transport hazard class(es) : 8



Packing group : II

Marine pollutant : Yes (Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides + Glutaraldehyde)

Special precautions for user : No information.

EmS number : F-A, S-B

Limited Quantity (QL): 1L

Transport in bulk according to Annex II of MARPOL and the IBC Code :

Not concerned

## SECTION 15: REGULATORY INFORMATION

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

Regulations relating to the hazards from major accidents :

SEVESO 3 Directive (2012/18/EC) : H2 E1

Regulations relating to the classification, packaging and labelling of substances and mixtures :

Regulation 1272/2008/EC 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.

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



Viroshield

Code: 036U0

## Material Safety Data Sheet compliant with Regulation (EC) 2015/830

Version 6.1.0

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Regulation 1005/2009/EC 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

Regulation (EC) 648/2004 :  
Not concerned

Comply with national and local legislation.

### 15.2. Chemical safety assessment

No

## 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 :

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/  
UNDERTAKING;SECTION 15: REGULATORY INFORMATION

List of H phrases referred to in sections 2 and 3 :

H301 : Toxic if swallowed.

H302 : Harmful if swallowed.

H314 : Causes severe skin burns and eye damage.

H317 : May cause an allergic skin reaction.

H330 : Fatal if inhaled.

Viroshield

Code: 036U0

## Material Safety Data Sheet compliant with Regulation (EC) 2015/830

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H334 : May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 : May cause respiratory irritation.

H400 : Very toxic to aquatic life.

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

H411 : Toxic to aquatic life with long lasting effects.

Sources of key data used to compile the data sheet :

MSDS supplier

International limit values for chemical agents

Historical :

Version 6.1.0

Cancels and replaces previous version 6.0.