

**Section 1: Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

**Product name:** VIREX

**Product code:** AF9518

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

**Use of substance / mixture:** Disinfectant

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

**Company name:** Kilco (International) Ltd  
Broomhouses 2 Industrial Estate  
Old Glasgow Road  
Lockerbie  
DG11 2SD  
United Kingdom

**Tel:** +44 (0) 157 620 5480

**Email:** [sds@kilco.co.uk](mailto:sds@kilco.co.uk)

**1.4. Emergency telephone number**

**Emergency tel:** +44 (0) 207 858 1228

**Section 2: Hazards identification**

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

**Classification under CHIP:** Xn: R22; -: R31; C: R34; N: R51/53

**Classification under CLP:** Skin Corr. 1B: H314; Acute Tox. 4: H302+332; Aquatic Chronic 2: H411; -: EUH031

**Most important adverse effects:** Harmful if swallowed. Contact with acids liberates toxic gas. Causes burns. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**2.2. Label elements**

**Label elements:**

**Hazard statements:** EUH031: Contact with acids liberates toxic gas.  
H302+332: Harmful if swallowed or if inhaled.  
H314: Causes severe skin burns and eye damage.  
H411: Toxic to aquatic life with long lasting effects.

**Signal words:** Danger

**Hazard pictograms:** GHS05: Corrosion  
GHS07: Exclamation mark  
GHS09: Environmental



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**Precautionary statements:** P260: Do not breathe dust.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P301+312: IF SWALLOWED: Call a POISON CENTER/doctor/ if you feel unwell.  
P301+330+331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing.  
Rinse skin with water/shower.  
P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

## Label elements under CHIP:

**Hazard symbols:** Dangerous for the environment.

Corrosive.



**Risk phrases:** R22: Harmful if swallowed.  
R31: Contact with acids liberates toxic gas.  
R34: Causes burns.  
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Safety phrases:** S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.  
S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
S61: Avoid release to the environment. Refer to special instructions / safety data sheets.

## 2.3. Other hazards

**PBT:** This product is not identified as a PBT/vPvB substance.

## Section 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous ingredients:

PENTAPOTASSIUM BIS (PEROXYMONOSULPHATE) BIS (SULPHATE)

EINECS	CAS	CHIP Classification	CLP Classification	Percent
274-778-7	70693-62-8	Xn: R22; C: R34; -: R52	Acute Tox. 4: H302; Skin Corr. 1B: H314; Eye Dam. 1: H318; Aquatic Chronic 3: H412	30-50%

[cont...]

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## SULPHAMIC ACID

226-218-8	5329-14-6	Xi: R36/38; -: R52/53	Eye Irrit. 2: H319; Skin Irrit. 2: H315; Aquatic Chronic 3: H412	1-10%
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## TROCLOSENE SODIUM

220-767-7	2893-78-9	O: R8; Xn: R22; -: R31; Xi: R36/37; N: R50/53	Ox. Sol. 2: H272; Acute Tox. 4: H302; Eye Irrit. 2: H319; STOT SE 3: H335; Aquatic Chronic 1: H410; Aquatic Acute 1: H400; -: EUH031	1-10%
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## Section 4: First aid measures

### 4.1. Description of first aid measures

- Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.
- Eye contact:** Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.
- Ingestion:** Wash out mouth with water. Do not induce vomiting. Give 1 cup of water to drink every 10 minutes. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.
- Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious and breathing is OK, place in the recovery position. If conscious, ensure the casualty sits or lies down. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

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

- Skin contact:** Blistering may occur. Progressive ulceration will occur if treatment is not immediate.
- Eye contact:** Corneal burns may occur. May cause permanent damage.
- Ingestion:** Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.
- Inhalation:** There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

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

## Section 5: Fire-fighting measures

### 5.1. Extinguishing media

- Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

[cont...]

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

**Exposure hazards:** Corrosive. In combustion emits toxic fumes.

## 5.3. Advice for fire-fighters

**Advice for fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

## Section 6: Accidental release measures

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

**Personal precautions:** If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Do not create dust. Refer to section 8 of SDS for personal protection details.

### 6.2. Environmental precautions

**Environmental precautions:** Do not discharge into drains or rivers.

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

**Clean-up procedures:** Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

### 6.4. Reference to other sections

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

**Handling requirements:** Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of dust in the air.

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

**Storage conditions:** Store in a cool, well ventilated area. Keep container tightly closed.

**Suitable packaging:** Must only be kept in original packaging.

### 7.3. Specific end use(s)

**Specific end use(s):** The identified uses for this product are detailed in Section 1.2

## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

**Hazardous ingredients:**

[cont...]

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## PENTAPOTASSIUM BIS (PEROXYMONOSULPHATE) BIS (SULPHATE)

### Workplace exposure limits:

### Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
EU	4mg/m <sup>3</sup>	-	-	-

### DNEL/PNEC Values

**DNEL / PNEC** No data available.

### 8.2. Exposure controls

**Engineering measures:** Ensure there is sufficient ventilation of the area.

**Respiratory protection:** Self-contained breathing apparatus must be available in case of emergency. Respiratory protective device with particle filter.

**Hand protection:** Protective gloves.

**Eye protection:** Tightly fitting safety goggles. Ensure eye bath is to hand.

**Skin protection:** Protective clothing.

## Section 9: Physical and chemical properties

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

**State:** Fine powder

**Colour:** White

**Odour:** Faint chlorine

**Oxidising:** Non-oxidising (by EC criteria)

**Solubility in water:** Soluble

**Flammability limits %: lower:** Not applicable.

**upper:** Not applicable.

**Flash point°C:** Not applicable.

**pH:** 1.9 - 2.5 (1% soln)

### 9.2. Other information

**Other information:** Not applicable.

## Section 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity:** Stable under recommended transport or storage conditions.

### 10.2. Chemical stability

**Chemical stability:** Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

**Hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions.

### 10.4. Conditions to avoid

**Conditions to avoid:** Heat.

[cont...]

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## 10.5. Incompatible materials

**Materials to avoid:** Strong oxidising agents. Strong acids.

## 10.6. Hazardous decomposition products

**Haz. decomp. products:** In combustion emits toxic fumes.

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

#### Hazardous ingredients:

#### PENTAPOTASSIUM BIS (PEROXYMONOSULPHATE) BIS (SULPHATE)

DERMAL	RAT	LD50	>2000	mg/kg
ORAL	RAT	LD50	500	mg/kg
VAPOURS	RAT	4H LC50	>5	mg/l

#### SULPHAMIC ACID

IPR	RAT	LDLO	100	mg/kg
ORL	MUS	LD50	1312	mg/kg
ORL	RAT	LD50	3160	mg/kg

#### TROCLOSENE SODIUM

ORL	RAT	LD50	1420	mg/kg
ORL	RBT	LDLO	2500	mg/kg

#### Relevant effects for mixture:

Effect	Route	Basis
Acute toxicity (harmful)	ING	Hazardous: calculated
Corrosivity	OPT INH DRM	Hazardous: calculated

### Symptoms / routes of exposure

**Skin contact:** Blistering may occur. Progressive ulceration will occur if treatment is not immediate.

**Eye contact:** Corneal burns may occur. May cause permanent damage.

**Ingestion:** Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.

**Inhalation:** There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

## Section 12: Ecological information

### 12.1. Toxicity

[cont...]

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## Hazardous ingredients:

### PENTAPOTASSIUM BIS (PEROXYMONOSULPHATE) BIS (SULPHATE)

DAPHNIA	48H EC50	3.5	mg/l
GREEN ALGA ( <i>Selenastrum capricornutum</i> )	72H ErC50	>1	mg/l
SHEEPSHEAD MINNOWS ( <i>Cyprindodon variegat</i> )	48H EC50	1.09	mg/l

## 12.2. Persistence and degradability

**Persistence and degradability:** Biodegradable.

## 12.3. Bioaccumulative potential

**Bioaccumulative potential:** No bioaccumulation potential.

## 12.4. Mobility in soil

## 12.5. Results of PBT and vPvB assessment

**PBT identification:** This product is not identified as a PBT/vPvB substance.

## 12.6. Other adverse effects

**Other adverse effects:** Negligible ecotoxicity.

## Section 13: Disposal considerations

### 13.1. Waste treatment methods

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

## Section 14: Transport information

### 14.1. UN number

**UN number:** UN3260

### 14.2. UN proper shipping name

**Shipping name:** CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.  
(Contains Monopersulphate Compound)

### 14.3. Transport hazard class(es)

**Transport class:** 8

### 14.4. Packing group

**Packing group:** III

### 14.5. Environmental hazards

**Environmentally hazardous:** Yes

**Marine pollutant:** No

### 14.6. Special precautions for user

**Tunnel code:** E

**Transport category:** 3

[cont...]

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## Section 15: Regulatory information

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

**Specific regulations:** Not applicable.

### 15.2. Chemical Safety Assessment

**Chemical safety assessment:** A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

## Section 16: Other information

### Other information

**Other information:** This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

\* indicates text in the SDS which has changed since the last revision.

This safety data sheet is prepared in accordance with Commission Regulation (EC) No 1272/2008.

**Phrases used in s.2 and s.3:** EUH031: Contact with acids liberates toxic gas.  
H272: May intensify fire; oxidiser.  
H302: Harmful if swallowed.  
H302+332: Harmful if swallowed or if inhaled.  
H314: Causes severe skin burns and eye damage.  
H315: Causes skin irritation.  
H318: Causes serious eye damage.  
H319: Causes serious eye irritation.  
H335: May cause respiratory irritation.  
H410: Very toxic to aquatic life with long lasting effects.  
H411: Toxic to aquatic life with long lasting effects.  
H412: Harmful to aquatic life with long lasting effects.  
R8: Contact with combustible material may cause fire.  
R22: Harmful if swallowed.  
R31: Contact with acids liberates toxic gas.  
R34: Causes burns.  
R36/37: Irritating to eyes and respiratory system.  
R36/38: Irritating to eyes and skin.  
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R52: Harmful to aquatic organisms.

[cont...]

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**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product. Kilco (International) Ltd, Registered Office: Waterfront Plaza, 8 Laganbank Road, Belfast, BT1 3LR Place of Registration: Northern Ireland, Registration Number: NI3240