

# Vazor Cypermethrin 10 Safety Data Sheet

Labelling according to The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019

Control of Substances Hazardous to Health Regulations 2002 (as amended). The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020



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

### 1.1 Product identifier

Vazor Cypermethrin 10 (HSE 10085)-[Mixture]

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

**Relevant identified uses:** Pesticide, Non-agricultural (Biocides) Use of the substance/mixture: Insecticide.

**Uses advised against:** Uses outside of those described.

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

**Address:** Killgerm Chemicals Ltd, Wakefield Road, Ossett, WF5 9AJ

**Tel:** +44 (0)1924 268 450

**Fax:** +44 (0)1924 265 033

**Email:** technical@killgerm.com

### 1.4. Emergency telephone number

Medical professionals should use National Poisons Information Service Tel: 0344 892 0111.

Killgerm Chemicals Ltd Tel:01924 268452 (Office hours) Emergency Line 08701906777

Non-medical professionals should seek information by contacting NHS by dialling 111.

## SECTION 2: Hazards identification

### 2.1. Classification of the mixture according to Regulation (EC) No. 1272/2008 [CLP]

**Acute Tox. 4**

**H302:** Harmful if swallowed.

**Skin Sens. 1**

**H317:** May cause an allergic skin reaction.

**Aquatic Acute 1**

**H400:** Very toxic to aquatic life.

**Aquatic Chronic 1**

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

Full text of H statements: see section 16.

### 2.2. Label elements



GHS07



GHS09

Signal Word: **Warning**

#### Hazard statements:

**H302:** Harmful if swallowed.

**H317:** May cause an allergic skin reaction.

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

#### Precautionary statements:

**P102:** Keep out of the reach of children.

**P261:** Avoid breathing spray.

**P270:** Do not eat, drink, or smoke when using this product.

**P280:** Wear protective gloves/protective clothing/eye protection/face protection.

**P301+P312:** IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.

**P302+P312:** IF ON SKIN: Wash with plenty of soap and water.

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

**EUH401:** To avoid risks to human health and the environment, comply with the instructions for use

**Safety data sheet available for professional user on request.**

### 2.3. Other hazards

Other hazards which do not result in classification: This mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous Components in Product

Name	Product identifier	%	Classification according to Regulation (EC) No 1272/2008 [CLP]
cypermethrin cis/trans +/-40/60; (RS)- $\alpha$ -cyano-3-phenoxybenzyl (1RS,3RS; 1RS,3SR)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate	(CAS-No.) 52315-07-8 (EC-No.) 257-842-9 (EC Index-No.) 607-421-00-4	11.1	Acute Tox. 4 (Oral), [H302] (ATE=500 mg/kg bodyweight) Acute Tox. 4 (Inhalation: dust, mist), [H332] (ATE=3.28 mg/l/4h) STOT SE 3, [H335] Aquatic Acute 1, [H400] (M=1000) Aquatic Chronic 1, [H410] (M=1000)
2,6-di-tert-butyl-p-cresol substance with national workplace exposure limit(s) (GB)	(CAS-No.) 128-37-0 (EC-No.) 204-881-4 (REACH-no) 01-2119480433-40, 01-2119555270-46, 01-2119565113-46	$\leq 1$	Aquatic Acute 1, [H400] Aquatic Chronic 1, [H410]
1,2-benzisothiazol-3(2H)-one	(CAS-No.) 2634-33-5 (EC-No.) 220-120-9 (EC Index-No.) 613-088-00-6 (REACH-no) 01-2120761540-60	< 0.2	Acute Tox. 4 (Oral), [H302] (ATE=490 mg/kg bodyweight) Skin Irrit. 2, [H315] Eye Dam. 1, [H318] Skin Sens. 1, [H317] Aquatic Acute 1, [H400] Aquatic Chronic 2, [H411]
Sodium hydroxide substance with national workplace exposure limit(s) (GB)	(CAS-No.) 1310-73-2 (EC-No.) 215-185-5 (EC Index-No.) 011-002-00-6 (REACH-no) 01-2119457892-27	< 0.1	Met. Corr. 1, [H290] Skin Corr. 1A, [H314] Eye Dam. 1, [H318]
orthophosphoric acid substance with national workplace exposure limit(s) (GB); substance with a community workplace exposure limit	(CAS-No.) 7664-38-2 (EC-No.) 231-633-2 (EC Index-No.) 015-011-00-6 (REACH-no) 01-2119485924-24	$\leq 0.02$	Met. Corr. 1, [H290] Acute Tox. 4 (Oral), [H302] (ATE=500 mg/kg bodyweight) Skin Corr. 1B, [H314] Eye Dam. 1, [H318]

#### Specific concentration limits:

Name	Product Identifier	Specific concentration limits
1,2-benzisothiazol-3(2H)-one	(CAS-No.) 2634-33-5 (EC-No.) 220-120-9 (EC Index-No.) 613-088-00-6 (REACH-no) 01-2120761540-60	(0.05 $\leq$ C $\leq$ 100) Skin Sens. 1, [H317]
Sodium hydroxide	(CAS-No.) 1310-73-2 (EC-No.) 215-185-5 (EC Index-No.) 011-002-00-6 (REACH-no) 01-2119457892-27	(0.5 $\leq$ C < 2) Eye Irrit. 2, [H319] (0.5 $\leq$ C < 2) Skin Irrit. 2, [H315] (2 $\leq$ C < 5) Skin Corr. 1B, [H314] (5 $\leq$ C $\leq$ 100) Skin Corr. 1A, [H314]
orthophosphoric acid	(CAS-No.) 7664-38-2 (EC-No.) 231-633-2 (EC Index-No.) 015-011-00-6 (REACH-no) 01-2119485924-24	(10 $\leq$ C < 25) Eye Irrit. 2, [H319] (10 $\leq$ C < 25) Skin Irrit. 2, [H315] (25 $\leq$ C $\leq$ 100) Skin Corr. 1B, [H314]

See section 16 for full text of H phrases and hazard classification of ingredients.

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## SECTION 4: First aid measures

### 4.1. Description of first aid measures.

**General:** If during or after use/exposure you begin to feel unwell, seek medical attention bringing a copy of the product label/the SDS.

**Eye contact:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, seek medical advice.

**Skin contact:** IF ON SKIN (or hair): Remove all contaminated clothing. Wash skin with soap and water. If irritation persists, seek medical advice.

**Ingestion:** DO NOT induce vomiting. Rinse mouth carefully with water. Seek medical attention if you feel unwell.

**Inhalation:** IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Seek Medical Advice.

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

**Skin contact:** May cause and allergic skin reaction.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media.

**Suitable extinguishing agents:** Water spray, foam, dry chemical, or carbon dioxide.

**Unsuitable agents:** Do not use water jet.

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

Hazardous decomposition products in case of fire: Toxic fumes may be released.

### 5.3. Advice for firefighter.s

Wear self-contained breathing apparatus and appropriate protective equipment.

Fire residues and contaminated extinguishing media should be disposed according to current regulation.

## SECTION 6: Accidental release measures

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

Wear appropriate PPE (See section 8.2).

Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

### 6.2. Environmental precautions.

Avoid release to the environment.

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

Absorb spilt product with sand, diatomaceous earth, or similar absorbent material and transfer to a marked container.

Dispose of as hazardous waste following local regulations.

Clean area with soap and water where possible.

### 6.4. Reference to other sections.

See section 8 for protective clothing, see section 7 for safe handling, See section 13 for disposal.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Ensure good ventilation of the workplace. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.

Handle in accordance with good industrial hygiene and safety practice.

Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink, or smoke when using this product. Always wash hands after handling the product.

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

Store in a well-ventilated area. Keep container tightly closed.

Maximum storage period: 2 years

Storage temperature: >-5°C

## 7.3. Specific end use(s)

See section 1.2.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

2,6-di-tert-butyl-p-cresol (128-37-0)	
<b>United Kingdom - Occupational Exposure Limits</b>	
Local name	2,6-Di-tert-butyl-p-cresol
WEL TWA (OEL TWA) [1]	10 mg/m <sup>3</sup>
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
<b>Orthophosphoric acid (7664-38-2)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
Local name	Orthophosphoric acid
IOEL TWA	1 mg/m <sup>3</sup>
IOEL STEL	2 mg/m <sup>3</sup>
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
<b>United Kingdom - Occupational Exposure Limits</b>	
Local name	Orthophosphoric acid
WEL TWA (OEL TWA) [1]	1 mg/m <sup>3</sup>
WEL STEL (OEL STEL)	2 mg/m <sup>3</sup>
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
<b>Sodium hydroxide (1310-73-2)</b>	
<b>United Kingdom - Occupational Exposure Limits</b>	
Local name	Sodium hydroxide
WEL STEL (OEL STEL)	2 mg/m <sup>3</sup>
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

#### 8.1.2. Recommended monitoring procedures.

No additional information available

#### 8.1.3. Air contaminants formed.

No additional information available

#### 8.1.4. DNEL and PNEC.

No additional information available

#### 8.1.5. Control banding.

No additional information available

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## 8.2. Exposure controls.

Where exposure may occur appropriate engineering controls should be employed including ensuring good ventilation of the work area.

A risk assessment should be carried out and the following PPE may be appropriate /required.

PPE	Item in use	Spillage
Respiratory	In case of insufficient ventilation, wear half-mask respirator (EN140) plus A1P2 class filter minimum (EN141).	In case of insufficient ventilation, wear half-mask respirator (EN140) plus A1P2 class filter minimum (EN141).
Gloves	Unlined synthetic rubber/PVC (300mm) minimum thickness	Unlined synthetic rubber/PVC (300mm) minimum thickness
Overall	Low levels of contamination: coverall type 5/6. High levels of contamination – Coverall type 4.	Low levels of contamination: coverall type 5/6. High levels of contamination – Coverall type 4.
Goggles	Face shield to EN 166 3F	Face shield to EN 166 3F

**General safety and hygiene:** Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

## SECTION 9: Physical and chemical properties

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

Appearance:	Opaque white liquid.
Odour:	Characteristic odour.
Odour threshold:	No data
pH:	4-5.
Melting point/freezing point:	No available data.
Initial boiling point/boiling range:	No available data.
Flash point:	>79°C.
Evaporation rate:	No available data.
Flammability:	No available data.
Upper/lower flammability or explosive limits:	No available data.
Vapor pressure:	No available data.
Vapor density:	No available data.
Relative density:	0.98g/ml. (20°C)
Solubility(ies):	forms emulsion with water.
Partition coefficient n-octanol/water (log Kow):	No available data.
Auto-ignition temperature:	385°C.
Decomposition temperature:	No available data.
Viscosity:	kinematic: 68.4mm <sup>2</sup> /s
Explosive properties:	Product is not explosive. Test method EU A.14.
Oxidising properties:	No available data.

### 9.2 Other Information

No further relevant information

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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage, and transport.

### 10.2. Chemical stability

Stable under recommended conditions of storage and handling.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid.

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Classification of the product based on the content of hazardous ingredients:

Vazor Cypermethrin 10	
LD50 oral rat	301 – 2000 mg/kg
LD50 dermal rabbit	> 4000 mg/kg
LC50 Inhalation - Rat	> 5 mg/l/4h
2,6-di-tert-butyl-p-cresol (128-37-0)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
Cypermethrin cis/trans +/- 40/60 (52315-07-8)	
LD50 oral rat	500 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 Inhalation	- Rat 3.28 mg/l/4h
1,2-benzisothiazol-3(2H)-one (2634-33-5)	
LD50 oral rat	490 mg/kg
LD50 dermal rat	> 2000 mg/kg

**a) acute toxicity:** Based on data available Product classified as ACUTE TOX cat.4 Oral. Information has been derived from the properties of the individual ingredients.

**b) irritation:** Based on data available classification criteria are not met.

**c) corrosivity:** Based on data available classification criteria are not met.

**d) sensitisation:** Based on data available Product has been classified as SKIN SENSITISER cat.1 OECD 429 (LLNA)

**e) repeated dose toxicity:** Based on data available classification criteria are not met.

**f) carcinogenicity:** Based on data available classification criteria are not met

Cypermethrin cis/trans +/- 40/60 (52315-07-8)	
NOAEL (chronic, oral, animal/male, 2 years)	5 mg/kg bodyweight

**g) mutagenicity:** product does not contain any compounds with germ cell mutagenicity hazard.

**h) toxicity for reproduction:** Based on data available. classification criteria are not met.

**i) aspiration:** Based on data available classification criteria are not met.

### 11.2. Other Data

See section 2.3.

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## SECTION 12: Ecological information

### 12.1. Toxicity

**Ecology - general:** Very toxic to aquatic life with long lasting effects.  
**Hazardous to the aquatic environment, short-term (acute):** Very toxic to aquatic life.  
**Hazardous to the aquatic environment, long-term (chronic):** Very toxic to aquatic life with long lasting effects.

#### Vazor Cypermethrin 10

LC50 - Fish [1] 0.0242 mg/l (96h)  
EC50 - Crustacea [1] 0.014 mg/l (48h)  
ErC50 algae > 1000 mg/l (72h)

#### 2,6-di-tert-butyl-p-cresol (128-37-0)

LC50 - Fish [1] 0.199 mg/l (96h)  
EC50 - Crustacea [1] 0.31 mg/l (48h\_Daphnia magna)  
ErC50 algae 0.42 mg/l (72h)

#### Cypermethrin cis/trans +/- 40/60 (52315-07-8)

LC50 - Fish [1] 0.0028 mg/l/96h (Salmo gairdneri)  
EC50 - Crustacea [1] 0.0003 mg/l/48h (Daphnia magna)  
ErC50 algae > 0.1 mg/l/96h (Selenastrum capricornutum)  
NOEC chronic fish 0.00003 mg/l (34 days, Pimephales promelas)  
NOEC chronic crustacea 0.00004 mg/l (21 days, Daphnia magna)

#### 1,2-benzisothiazol-3(2H)-one (2634-33-5)

LC50 - Fish [1] 2.15 mg/l/96h ((OECD 203 method), Oncorhynchus mykiss)  
EC50 - Crustacea [1] 2.9 mg/l/48h ((OECD 202 method), Daphnia magna)  
ErC50 algae 0.11 mg/l/72h ((OECD 201 method), Selenastrum capricornutum)  
NOEC chronic algae 0.0403 mg/l/72h ((OECD 201 method), Selenastrum capricornutum)

#### Sodium hydroxide (1310-73-2)

LC50 - Fish [1] 35 – 189 mg/l

### 12.2. Persistence and degradability

**2,6-di-tert-butyl-p-cresol (128-37-0):** Not readily biodegradable.  
**Cypermethrin cis/trans +/- 40/60 (52315-07-8):** Not readily biodegradable.

### 12.3. Bio accumulative potential

#### Vazor Cypermethrin 10

Partition coefficient n-octanol/water (Log Pow) Not applicable

#### 2,6-di-tert-butyl-p-cresol (128-37-0)

Bioconcentration factor (BCF REACH) 598  
Partition coefficient n-octanol/water (Log Pow) 5.1  
Bioaccumulative potential Contains bioaccumulative component(s).

#### Cypermethrin cis/trans +/- 40/60 (52315-07-8)

BCF - Fish [1] 1204 mg/l (Salmo gairdneri)  
Partition coefficient n-octanol/water (Log Pow) 5.3 – 5.6 (25°C)

#### 1,2-benzisothiazol-3(2H)-one (2634-33-5)

Partition coefficient n-octanol/water (Log Pow) 0.7 (20 °C)

### 12.4. Mobility in soil

#### Vazor Cypermethrin 10

Surface tension 25.6 mN/m (25°C)

### 12.5. Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not conducted.

### 12.6. Other adverse effects

No additional information available.

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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Disposal of unused product, empty containers and contaminated packaging must be made in accordance with the local law. For information on disposal in the UK contact the environment agency ([www.environment-agency.gov.uk](http://www.environment-agency.gov.uk)) or SEPA ([www.sepa.org.uk](http://www.sepa.org.uk)).

Dispose of unused product in the original container as hazardous waste.

Empty containers and contaminated PPE should be considered hazardous and disposed of appropriately.

Suggested European waste catalogue code 20 01 19.

## SECTION 14: Transport information

### 14.1. UN number

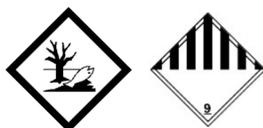
UN 3082

### 14.2. UN proper shipping name

Environmentally hazardous substance, Liquid, N.O.S. (Cypermethrin)

### 14.3. Transport hazard class(es).

Class 9



### 14.4. Packing group

Group III

### 14.5. Environmental hazards

Environmentally hazardous

### 14.6. Special precautions for user

Overland transport	Transport by sea
Classification code (ADR) : M6 Special provisions (ADR) : 274, 335, 375, 601 Limited quantities (ADR) : 5I Excepted quantities (ADR) : E1 Packing instructions (ADR) : P001, IBC03, LP01, R001 Special packing provisions (ADR) : PP1 Mixed packing provisions (ADR) : MP19 Portable tank and bulk container instructions (ADR) : T4 Portable tank and bulk container special provisions (ADR) : TP1, TP29 Tank code (ADR) : LGBV Vehicle for tank carriage : AT Transport category (ADR) : 3 Special provisions for carriage - Packages (ADR) : V12 Special provisions for carriage - Loading, unloading and handling (ADR) : CV13 Hazard identification number (Kemler No.) : 90	Special provisions (IMDG) : 274, 335, 969 Packing instructions (IMDG) : P001, LP01 Special packing provisions (IMDG) : PP1 IBC packing instructions (IMDG) : IBC03 Tank instructions (IMDG) : T4 Tank special provisions (IMDG) : TP2, TP29 EmS-No. (Fire) : F-A EmS-No. (Spillage) : S-F Stowage category (IMDG) : A
Orange plates : Tunnel restriction code : - EAC code : •3Z	<b>Air transport</b> PCA Excepted quantities (IATA) : E1 PCA Limited quantities (IATA) : Y964 PCA limited quantity max net quantity (IATA) : 30kgG PCA packing instructions (IATA) : 964 PCA max net quantity (IATA) : 450L CAO packing instructions (IATA) : 964 CAO max net quantity (IATA) : 450L Special provisions (IATA) : A97, A158, A197 ERG code (IATA) : 9L

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code.

Not applicable.

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## SECTION 15: Regulatory information

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

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Control of Substances Hazardous to Health Regulations 2002 (as amended).

The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

- Restricted to trained professional users in the UK.
- Refer to other relevant measures such as the Health and Safety at Work etc Act 1974 and the COSHH regulations and guidance.
- The information contained in this data sheet does not constitute the user's own assessment of workplace risks as required by legislation.

### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

## SECTION 16: Other information

Use only in accordance with label instructions.

Operatives using this product should be trained in its use.

The information in this data sheet should be considered when undertaking a risk assessment under the COSHH regulations.

### Ingredient classification data:

Metal Corrosion Cat.1

Acute Toxicity. 4: (oral, inhalation: dust/mist)

Skin corrosion Cat.1:

Skin irritant Cat.2:

Skin sensitiser Cat.1:

Eye Damage Cat. 1:

Eye Irritant Cat.2:

Specific Target organ toxicity single Exposure Cat.3  
(respiratory tract irritation)

Acute Aquatic Toxicity cat1

Chronic Aquatic Toxicity Cat.1

Chronic Aquatic Toxicity Cat.2

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H332 Harmful if inhaled.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 causes serious eye irritation.

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.

Issue number (date)	Section amended
Aug 2018	Updated hazard information
Feb 2021	Updated hazard information
Jan 2022	Added emergency number. – updated section 15 legislation.

### This safety data sheet does not constitute a COSHH assessment.

The information contained within this data sheet is strictly for general guidance only and should not be relied upon over and above this. This data sheet is intended to provide general health and safety guidance on the handling, storage and transportation of the preparation. The information provided in this data sheet is accurate at the date of publication and will be updated as and when appropriate. No liability will be accepted by Killgerm Chemicals Limited for any loss, injury or damage arising from any failure to comply with the information and advice contained within this data sheet and/or failure to comply with the manufacturer's guidelines, product label data and any associated technical usage literature.