

Vazor Phepra CS

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)
with its amendment Regulation (EU) 2020/878



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

1.1 Product identifier

Vazor Phepra CS (HSE 10856)

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

Relevant identified uses: Insect control.

Uses advised against: Use only as instructed.

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: 0870 600 6266.

Killgerm Chemicals Ltd Tel:01924 268452 (Office hours) Emergency Line 01865407333

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 [CLP]

Acute Toxicity Cat.4

H332 Harmful if inhaled.

Aquatic Acute Cat.1

H400 Very toxic to aquatic life.

Aquatic Chronic Cat.1

H410 Very toxic to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]



GHS07

GHS09

Signal Word: WARNING

Hazardous component(s) to be indicated on label:

Prallethrin

Hazard statements:

H332 Harmful if inhaled.

H410 Very toxic to aquatic life with long lasting effects.

EUH208 Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P261 Avoid breathing vapours/spray.

P271 Use only outdoors or in well-ventilated area.

P501 Dispose of contents/container to a facility in accordance with local/regional/national regulations.

2.3. Other hazards

PBT: this material does not contain any substance identified as PBT or vPvB. The product does not contain any endocrine disruptors in a concentration of 0.1% weight by weight and above.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical Characterisation

ZW – mixture of EW (emulsion in water) and CS (capsule suspension)

Hazardous Ingredients in Product

Ingredient Name	Concentration	Classification	Specific Concentration Limits / M-factor
1R-Trans phenothrin Cas no: 26046-85-5 EC no: 247-431-2	10 %w/w	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M = 100 (acute) M = 100 (chronic)
Fatty acids, coco, Me esters Cas no: 61788-59-8 EC no: 262-988-1	<5 %w/w	Aquatic Acute 1, H400 Aquatic Chronic 2, H411	
Prallethrin Cas no: 23031-36-9 EC no: 245-387-9 INDEX: 607-431-00-9	1 %w/w	Acute Tox 3, H331 Acute Tox 4, H302 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M = 100 (acute) M = 100 (chronic)
1,2-benzisothiazol-3(2H)-one Cas no: 2634-33-5 EC no: 220-120-9 INDEX: 613-088-00-6	<0.035 %w/w	Acute Tox 4, H302 Skin Irrit 2, H315 Skin Sens 1A, H317 Eye Dam 1, H318 Acute Tox 2, H330 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M = 1 (acute) M = 1 (chronic) Skin Sens 1A: H317: C≥0.036%
Propane-1,2-diol Cas no: 57-55-6 EC no: 200-338-0 REACH No: 01-2119456809-23,	≥5%w/w<10%w/w		

Acute toxicity estimate (ATE) VALUES

Ingredient Name	Oral
Prallethrin	640 mg/kg bodyweight

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

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. Remove contaminated clothing and shoes and launder thoroughly before reusing.
- Eye contact:** Remove contact lenses. Rinse eye thoroughly under running water keeping the eyelids wide open and protecting the unaffected eye (at least 10 to 15 min) Do not rub. If irritation persists, seek medical advice.
- Skin contact:** Wash area with plenty of soap and water. Take off contaminated clothing and wash it before reuse.
- Ingestion:** Rinse mouth thoroughly with water. Do NOT induce vomiting. Call a doctor immediately. Never give anything by mouth to an unconscious person.
- Inhalation:** Remove person to fresh air and keep comfortable for breathing.

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

No further relevant information

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

Treat symptomatically.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Water spray jet, Carbon dioxide; Dry chemical extinguisher; Foam

5.2. Special hazards arising from the substance or mixture.

In the event of a fire, the following can release: Carbon monoxide (CO): Carbon dioxide (CO₂)

5.3. Advice for firefighters

Wear self-contained breathing apparatus and appropriate protective equipment.

Fire residues and contaminated extinguishing media should be disposed according to current regulation. Do not allow extinguishing media to enter sewers, ground water or water courses.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes, and clothing. Refer to protective measures listed in section 7 and 8.

6.2. Environmental precautions

Do not allow the product to enter sewers, ground and surface waters. Do not rinse product to the sewers. In case of water contamination - inform appropriate authorities immediately. Prevent ground penetration.

6.3. Methods and material for containment and cleaning up.

Contain and collect spillage with non-combustible absorbent materials, e.g., sand, earth, vermiculite, or diatomaceous earth and place in container for disposal according to local regulations.

6.4. Reference to other sections

See section 8 for protective clothing & section 13 for disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes. If workplace exposure limits are exceeded, respiratory protection must be worn. Risks inherent in handling the product must be minimised by applying the appropriate protective and preventative measures. Working processes should, so far as possible, according to the state of the art be designed to rule out bodily contact or the release of hazardous substances.

General protective and hygiene measures

Do not eat or drink during work, no smoking. Wash hands before breaks and after work. Keep away from food, drink, and animal feeding stuffs. Do not inhale vapours, Remove soiled or soaked clothing immediately.

Advice on protection against fire and explosion

Keep away from sources of heat and ignition.

7.2. Conditions for safe storage, including any incompatibilities.

Store in original container, tightly closed in a cool, dry, well-ventilated place. Store away from children.

7.3. Specific end use(s)

See section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit values Propane-1,2-diol (CAS No: 57-55-6):

WEL Long-term (8hr TWA) Vapour and particulates: 474mg/m³ 150ppm, particulates 10mg/m³

8.2. Exposure controls

Where exposure may occur engineering controls should be employed. A risk assessment should be carried out and the following PPE may be appropriate /required.

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PPE	Item in use & Spillage
Respirators	If workplace exposure limits are exceeded, a respiration protection approved for the particular job must be worn. Wear Mask with a A1P3 filter.
Gloves	Protective Gloves to EN 374 Nitrile
Overall	Chemical resistant work clothes. Coverall type 5/6.
Goggles / Face shield	Tightly fitting safety goggles to EN 166

General safety and hygiene measures: 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

Physical State:	Liquid
Colour:	White
Odour:	Ester like
Melting point/Freezing point:	No data available
Boiling point or initial boiling point and boiling range:	No data available
Flammability:	Not flammable
Lower and upper explosion limit:	No data available
Flash point:	>100°C
Auto-ignition temperature:	400°C max
Decomposition temperature:	No data available
pH:	5.37
Viscosity:	20-200mPa*s@20°C (dynamic).
Solubility:	Water (dispersible)
Partition coefficient n-octanol/water (log value):	1R-trans phenothrin (6.8 log Pow), Prallethrin (49 log Pow)
Vapour pressure:	No data available
Density and/or relative density:	Density: 1.037g/cm ³ @20°C Relative Density: 1.040g/cm ³ @20°C
Relative vapour density:	No data available
Particle characteristics:	No data available
Oxidising properties:	Not oxidising
Explosive properties:	The product does not have explosive properties

9.2 Other Information

Particle size: D (v, 0.5) 1.68µM, D (v, 0.9) 2.78µM

SECTION 10: Stability and reactivity

10.1. Reactivity

Not reactive under recommended conditions of storage and handling.

10.2. Chemical stability

Chemically stable @25°C.

10.3. Possibility of hazardous reactions

Not a reactive mixture.

10.4. Conditions to avoid.

Stable under recommended storage and handling conditions (see section 7)

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10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

None Known.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

(a) Acute toxicity;

Product	Acute Oral	Acute Dermal	Acute Inhalational
Vazor Phepra CS	LD50 >5000mg/kg rat (female)	LD50 >5000mg/kg rat (male/female)	LC50 >2.05mg/l (4hr) dust/mist rats (male/female)
Ingredients	Acute Oral	Acute Dermal	Acute Inhalational
1R-Trans phenothrin Cas no: 26046-85-5 EC no: 247-431-2	LD50 >2000 mg/kg bodyweight rat	LD50 >2000 mg/kg bodyweight rat	
Prallethrin Cas no: 23031-36-9 EC no: 245-387-9 INDEX: 607-431-00-9	LD50 640 mg/kg bodyweight rat	LD50 >5000 mg/kg bodyweight rabbit	

(b) Skin corrosion/irritation; Moderately irritating, Rabbit OECD 404, Product Safety Labs, Dayton, USA, based on available data, the classification criteria are not met.

(c) Serious eye damage/irritation; Practically non irritating, based on available data, the classification criteria are not met.

(d) Respiratory or skin sensitisation; Based on available data, the classification criteria are not met. Mouse (female) OECD 429 Product Safety Labs, Dayton, USA.

(e) Germ cell mutagenicity; Based on available data, the classification criteria are not met.

(f) Carcinogenicity; Based on available data, the classification criteria are not met.

(g) Reproductive toxicity; Based on available data, the classification criteria are not met.

(h) STOT-single exposure; No data available

(i) STOT-repeated exposure, No data available

(j) Aspiration hazard; No information.

11.2. Information on other hazards

Endocrine disrupting properties; No data available

See section 2.3

SECTION 12: Ecological information

12.1. Toxicity

Toxicity to fish (acute)

1R-Trans Phenothrin Cas no: 26046-85-5
Prallethrin Cas no: 23031-36-9

LC50 0.0027mg/l (96h) fish.
LC50 0.012mg/l (96h) Rainbow trout.

Toxicity to Daphnia (acute)

1R-Trans Phenothrin Cas no: 26046-85-5
Prallethrin Cas no: 23031-36-9

EC50 0.0043 mg/l (48h) Daphnia magna.
EC50 0.0062mg/l (48h) Daphnia magna.

Toxicity to Daphnia (chronic)

1R-Trans Phenothrin Cas no: 26046-85-5
Prallethrin Cas no: 23031-36-9

NOEC 0.00047 mg/l Daphnia magna.
NOEC 0.00065mg/l Daphnia magna.

Toxicity to algae (Acute) no available data

Toxicity to algae (Chronic) no available data

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12.2. Persistence and degradability

Prallethrin: not readily biodegradable

12.3. Bioaccumulative potential

1R Trans-Phenothrin Log Pow 6.8
Prallethrin Log Pow 49 (approx.)

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Endocrine disrupting properties

No data available.

12.7. Other adverse effects

None known

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal of the product, empty containers and contaminated packaging must be made in accordance with the local law. 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 waste code 20 01 19.

SECTION 14: Transport information

14.1. UN number or ID number

UN3082

14.2. UN proper shipping name

ADR/RID/ADN: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. m-phenoxybenzyl (1R-trans)-2,2-dimethyl-3-(2-methylprop-1-enyl)cyclopropanecarboxylate / 1R-trans phenothrin prallethrin

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. m-phenoxybenzyl (1R-trans)-2,2-dimethyl-3-(2-methylprop-1-enyl)cyclopropanecarboxylate / 1R-trans phenothrin prallethrin

ICAO-TI /IATA: Environmentally hazardous substance, liquid, n.o.s. m-phenoxybenzyl (1R-trans)-2,2-dimethyl-3-(2-methylprop-1-enyl)cyclopropanecarboxylate / 1R-trans phenothrin prallethrin

14.3. Transport hazard class(es).

ADR/RID/ADN – Class:	9
Label	9
Classification code	M6
Tunnel restriction code	-
Hazard identification No.	90

IMDG – Class:	9
Label	9

ICAO-TI /IATA - Class:	9
Label	9

14.4. Packing group

ADR/RID/ADN	III
IMDG	III

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ICAO-TI /IATA III

14.5. Environmental hazards

ADR/RID/ADN	Symbol "fish and tree"
IMDG	Symbol "fish and tree"
EmS	F-A, S-F
ICAO-TI /IATA	Symbol "fish and tree"

14.6. Special precautions for user

No available data

14.7. Maritime transport in bulk according to IMO instruments

Not relevant

SECTION 15: Regulatory information

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

Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of Substances Subject to Authorisation)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006

REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006

Regulation (EC) No 1907/2006 (REACH) Annex XVII: Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII.			No. 3
The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII			
Substance Name	CAS No.	EC. No	No.
1,2-benzisothiazol-3(2H)-one	2634-33-5	220-120-9	75
Propan-2-ol	67-63-0	200-661-7	75
p-toluenesulphonic acid (containing a maximum of 5% H ₂ SO ₄)	104-15-4	203-180-0	75
xylene	1330-20-7	215-535-7	75

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances.

This product is subject to Part I of Annex I, risk category: E1

Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products.

Use biocides safely.

Always read the label and product information before use.

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.

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Hazard safety information full text:

Acute Tox 4, H302 Harmful if swallowed.

Skin Irrit 2, H315 Causes skin irritation

Skin Sens 1A, H317 May cause an allergic skin reaction

Eye Dam 1, H318 Causes serious eye damage

Acute Tox 2, H330 Fatal if inhaled

Acute Tox 3, H331 Toxic if inhaled

Aquatic Acute 1, H400 Very toxic to aquatic life

Aquatic Chronic 2, H411 Toxic to aquatic life with long lasting effects

Issue number (date)	Section amended
Issue (May 2021)	First creation.
Issue (Jan 2022)	Addition of emergency number – Update to section 15 legislation.
Issue (June 2023)	Updates to sections 3,4,12 & 15. Updates to wording throughout. Update to emergency line telephone number
Issue (Mar 2026)	Updates to sections 3.2, 11.1 (acute toxicity data for ingredients), 14 & 16

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.