

Vazor Provecta Safety Data Sheet

According to Regulation (EC) No 1907/2006, Annex II as amended by Regulation (EU) 2020/878



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

1.1 Product identifier

Vazor Provecta

UFI: 8H50-A0W4-700M-5QE3

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

Relevant identified uses: Insecticide with a physical mode of action formulation.

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.

Eye Irritant Cat.2

H319 Causes serious eye irritation.

Aquatic Chronic Cat.2

H411 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

Hazard statements:

H332: Harmful if inhaled.

H319: Causes serious eye irritation.

H411: Toxic to aquatic life with long lasting effects.

Precautionary statements:

P102: Keep out of reach of children.

P261: Avoid breathing mist, vapours, spray.

P273: Avoid release to the environment.

P280: Wear protective gloves and eye protection

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. remove contact lenses, if present and easy to do. Continue rinsing.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

Additional labelling requirements:

Substance names to show on the label:

polyalkyleneoxide modified heptamethyltrisiloxane

2.3. Other hazards

PBT: this material does not contain any substance identified as PBT or vPvB

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous Components in Product

Ingredient Name	Concentration	Classification
Polyalkyleneoxide modified heptamethyltrisiloxane CAS: 67674-67-3 EC: 614-100-2	90 - <100% w/w	Acute Tox. 4 (inhal.), H332 Eye Irrit. 2, H319 Aquatic Chronic 2, H411
Tetraethyl orthosilicate * CAS: 78-10-4 EC: 201-083-8 REACH reg. No: 01-2119496195-28-XXXX	< 0,1 % w/w	Flam. Liq. 3, H226 Acute Tox. 4, H332 Eye Irrit. 2, H319 STOT SE 3, H335

* Substance with national workplace exposure limits – details are given in Section 8
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.
- Eye contact:** Flush contaminated eyes with clean water or a suitable eye wash for at least 15 minutes by opening your eyelids. Do not rub your eyes. Avoid strong water stream - risk of corneal damage. Consult an ophthalmologist if any adverse symptoms occur.
- Skin contact:** Immediately take off all contaminated clothing and shoes. In the event of direct contact of the product with the skin, wash the affected area with water and soap with a pH similar to the skin's, rinse thoroughly.
- Ingestion:** Rinse mouth and throat with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. In case of feeling unwell get medical help.
- Inhalation:** In case of symptoms of poisoning, remove the injured from the exposure area and provide with fresh air. Consult a physician if symptoms persist or worsen.

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

Acute symptoms:

Inhalation: Respiratory irritation.

Skin contamination: Contact with skin may cause irritation (redness, itching).

Eye Contact: Contact with eyes can cause irritation (redness, lacrimation).

Ingestion: Can cause nausea and abdominal pain

Delayed symptoms – No available data

Effects of exposure: No available data

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

Treat symptomatically. No specific antidote is known. The decision on how to proceed is made by a doctor after a thorough assessment of the injured person's condition.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Water mist, Carbon dioxide; Dry chemical extinguisher; Foam

Unsuitable extinguishing media: High pressure water jet – risk of fire spread and environment contamination.

5.2. Special hazards arising from the substance or mixture

During the fire of the product following compounds might be emitted – carbon oxides, silica oxides, formaldehyde, other hazardous gases. Avoid breathing of combustion products, they might be hazardous to health.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and appropriate protective equipment.

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

Remove from the endangered area all unauthorized persons, not involved in extinguishing the fire, order evacuation if necessary. Dispose of all ignition sources. In the event of fire, cool the vessels and storage tanks. Do not allow extinguishing agents used to extinguish the fire to get into the watercourse.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures

For non-emergency personnel: Limit the access of bystanders to the contaminated area. In the event of large spills, isolate the affected area. Use personal protection equipment. Avoid eyes and skin contamination. Avoid direct contact with the released product. Ensure adequate ventilation.

For emergency responders: Follow instructions, use appropriate personal protection measures.

6.2. Environmental precautions

If larger quantities of the product are released, steps should be taken to prevent spreading in the wild. Avoid entering drains, groundwater, soil and open water courses. In the event of significant quantities of product getting into waters, relevant services should be notified.

6.3. Methods and material for containment and cleaning up

If the container is unsealed, spills occur, secure the source of the leak, pour the product into an empty container. Spilled product should be treated with a suitable sorbent (sand, sawdust, diatomaceous earth, vermiculite, universal sorbent), collected in the described containers and handed over for disposal. Clean the contamination surface. Maintenance and cleaning work should be carried out with adequate ventilation.

6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Use only as intended. Read the label before using the product. Work in accordance with the principles of health and safety. Wash hands before breaks and after finishing work. Use personal protection equipment. Avoid eyes and skin contamination. Ensure adequate ventilation. Do not consume. Maintain cleanliness and order when handling the product. Remove contaminated clothing and protective equipment before entering eating areas.

Specific measures against fire and explosion: No specific requirements.

Industrial hygiene:

- ensure good ventilation (overall and local exhausted ventilation)
- ensure place for eyes and skin rinsing
- wash hands with soap and water before eating, smoking and after work
- use general caution while working with chemical substances

7.2. Conditions for safe storage, including any incompatibilities

Store only in original, tightly closed containers. Avoid water and moisture during storage. It is recommended to store absorbent material nearby (section 6.3). Do not peel off the label from the packaging. Keep out of the reach of children, keep away from food, drink and feed. Avoid the vicinity of fragrances. Store and transport at temperatures from 0 to 35°C.

7.3. Specific end use(s)

See section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Tetraethyl silicate (CAS No. 78-10-4)				
	Limit value - Eight hours		Limit value - short term	
	ppm	mg/m ³	ppm	mg/m ³
Poland		44		
European Union	5	44		

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DNELs (Derived No Effect Levels) available for mixture components:

Polyalkyleneoxide modified heptamethyltrisiloxane								
CAS: 67674-67-3 EC: 614-100-2								
Exposure route	WORKERS				GENERAL POPULATION			
	Systemic Effects		Local Effects		Systemic Effects		Local Effects	
	Long-term	Acute	Long-term	Acute	Long-term	Acute	Long-term	Acute
Inhalation	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Dermal	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Oral	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Eye	n.d.				n.d.			

Tetraethyl silicate								
CAS: 78-10-4 EC: 201-083-8								
Exposure route	WORKERS				GENERAL POPULATION			
	Systemic Effects		Local Effects		Systemic Effects		Local Effects	
	Long-term	Acute	Long-term	Acute	Long-term	Acute	Long-term	Acute
Inhalation	44 mg/m ³	44 mg/m ³	44 mg/m ³	44 mg/m ³	5,3 mg/m ³	5,3 mg/m ³	5,3 mg/m ³	5,3 mg/m ³
Dermal	6.3 mg/kg b.w./day	n.h.i	n.h.i	n.h.i	1.8 mg/kg b.w./day	n.h.i	n.h.i	n.h.i
Oral	n.d.	n.d.	n.d.	n.d.	n.h.i	n.h.i	n.h.i	n.h.i
Eye	l.h.				l.h.			

n.d. – no data available

n.h.i. – no hazard identified

l.h. – low hazard (no derived threshold)

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.

Technical exposure controls: Local exhaust ventilation is necessary, which removes vapours from product emission sites, as well as general room ventilation.

PPE	Item in use & Spillage
Respirators	Is not necessary under normal conditions with sufficient ventilation or outdoor. Required during exposure to high concentrations of vapours/mist/aerosol. Normally recommended to wear cloth masks or protective masks with a particle filter P2 or respirator completed with the filter type K or better.
Gloves	Protective Gloves to EN 374 Nitrile or PVC.
Overall	Coverall type 3/4
Goggles	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:

Transparent Liquid

Colour:

Colourless to pale yellow

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Odour:

Melting point/Freezing point:

Boiling point or initial boiling point and boiling range:

Flammability:

Lower and upper explosion limit:

Flash point:

Auto-ignition temperature:

Decomposition temperature:

pH:

Viscosity:

Solubility:

Partition coefficient n-octanol/water (log value):

Vapour pressure:

Density and/or relative density:

Relative vapour density:

Particle characteristics:



Faint, characteristic.

No available data.

No available data.

Not applicable.

Not applicable.

>100°C.

No available data.

No available data.

5.87 (1% emulsion)

No available data.

Insoluble, emulsifies at 0.1 to 1.0%

Not applicable.

No available data.

1.01-1.02 g/cm³@20°C

No available data.

No data; product does not contain the substance as a nano-form

9.2 Other Information

No additional data.

SECTION 10: Stability and reactivity

10.1. Reactivity

Not reactive under recommended conditions of storage and handling.

10.2. Chemical stability

Product is stable under normal conditions.

10.3. Possibility of hazardous reactions

No data.

10.4. Conditions to avoid

High temperature, direct sunlight, humidity, moisture.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

Under recommended conditions of storage and handling product does not decompose with evolution of hazardous decomposition products. Hazardous decomposition products may be developed under thermal decomposition (fire)

SECTION 11: Toxicological information

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

(a) Acute toxicity; Based on data from the components, product is harmful if inhaled.

Acute Oral Toxicity: product does not meet criteria for classification.

Acute Dermal Toxicity: product does not meet criteria for classification.

Acute Inhalation Toxicity: product does meet criteria for classification, ATE mix = 12,2MG/l (vapours)

Polyalkyleneoxide modified heptamethyltrisiloxane – Cas:67674-67-3

Acute toxicity, oral (rat) LD₅₀: >2000 mg/kg

Acute toxicity, skin (rat) LD₅₀: >4000 mg/kg

Acute toxicity, inhalation (rat): LC₅₀ = 2 mg/l/4h (aerosol)

(b) Skin corrosion/irritation; based on available data, the classification criteria are not met.

(c) Serious eye damage/irritation; product classified as causing serious eye irritation.

(d) Respiratory or sensitisation; based on available data, the classification criteria are not met.

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(e) Germ cell mutagenicity; product does not contain any compounds with germ cell mutagenicity hazard.

(f) Carcinogenicity; product does not contain any compounds with carcinogenic hazard.

(g) Reproductive toxicity; product does not contain any compounds with reprotoxic hazard.

(h) STOT-single exposure; product may cause respiratory irritation.

(i) STOT-repeated exposure; based on available data, the classification criteria are not met. oral (rat): NOAEL:150 mg/kg (28 days)

(j) Aspiration hazard; based on available data, the classification criteria are not met.

Potential health hazards:

Ingestion: nausea, abdominal pain,

Inhalation: cough, sore throat, irritation of the respiratory tract

Skin: irritating effect, possible allergic reaction, redness, rash, pruritus

Eyes: irritating effect, redness, tearing

11.2. Information on other hazards

See section 2.3

SECTION 12: Ecological information

12.1. Toxicity

Product was not tested for environmental hazards. Classification of the product was conducted by calculation method according to regulation 1272/2008 based on the content of hazardous ingredients. According to regulation 1272/2008 product is classified as toxic to environment.

Polyalkyleneoxide modified heptamethyltrisiloxane – Cas:67674-67-3

Acute toxicity to fish (Danio rerio): LC₅₀ (96 h): 6.8 mg/L

Acute toxicity to freshwater invertebrates (Daphnia magna): EC₅₀ (48 h): 25 mg/L

Acute toxicity to algae (Pseudokirchneriella subcapitata): EC₅₀ (96h): 32 mg/L

Classified as toxic to aquatic life with long lasting effects, category 2.

12.2. Persistence and degradability

Product has not been tested for biodegradation, but it is not expected to be readily biodegradable based on test results from a chemically similar product. However, this product is subject to rapid hydrolysis under acidic or basic conditions.

12.3. Bioaccumulative potential

No available data.

12.4. Mobility in soil

No available data.

12.5. Results of PBT and vPvB assessment

Product does not meet the criteria for PBT or vPvB according to Annex XIII of REACH regulation.

This mixture contains no constituents considered to be or persistent subject to bioaccumulation and toxic or very persistent and very bioaccumulating (vPvB) of 0.1% or more.

12.6. Endocrine disrupting properties

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7 Other adverse effects

With correct handling of the mixture, no negative effects should be expected.

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.

Suggested waste code 20 01 19

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

Suggested waste code 15 01 10

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SECTION 14: Transport information

14.1. UN number or ID number

UN3082

14.2. UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Polyalkyleneoxide modified heptamethyltrisiloxane)

14.3. Transport hazard class(es).

9



14.4. Packing group

III

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS.

14.6. Special precautions for user

Road transport (ADR)	<ul style="list-style-type: none">• Classification code: M6• Labels: 9• Hazard identification No: 90• Packing instructions: P001, IBC03, LP01, R001• Transport category (tunnel restriction code): 3 (E) <p>Special provision 375: These substances when carried in single or combination packaging containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass per single or inner packaging 5 kg or less for solids, are not subject to any other provisions of ADR provided the packaging meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8</p>
Air transport (IATA DGR)	<ul style="list-style-type: none">• Class or Div.: 9• Hazard Label: Miscellaneous• Passenger and Cargo Aircraft PI: 964• Cargo Aircraft Only PI: 964 <p>Special provision A197: These substances when carried in single or combination packaging containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass per single or inner packaging 5 kg or less for solids, are not subject to any other provisions of these Regulations provided the packaging meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8</p>
Sea transport (IMDG):	<ul style="list-style-type: none">• EmS codes: F-A, S-F• Marine pollutant: yes <p>Provision 2.10.2.7 of IMDG CODE:</p> <p>“Marine pollutants packaged in single or combination packaging containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids are not subject to any other provisions of this Code relevant to marine pollutants provided the packaging meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. In the case of marine pollutants also meeting criteria for inclusion in another hazard class, all provision of this Code relevant to any additional continue to apply”</p>

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 of the European Parliament and of the Council from 18.12.2006 concerning the Registration, Evaluation, Authorization and Restriction from Chemicals (REACH),

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- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006,
- Commission Regulation (EU) (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH),
- European agreement concerning international road transport of dangerous products (ADR),
- Federal, State and Local regulations.

Directive 2012/18/UE:

Named dangerous substances - ANNEX I none of the product ingredients is listed

Seveso category E2 Hazardous to the Aquatic Environment

Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of lower-tier requirements - 200 t

Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of upper-tier requirements - 500 t

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.

Hazard safety information full text:

Flam Liquid Cat. 3

H226 Flammable liquid and vapour

Eye Irritant Cat.2

H319 Causes serious eye irritation.

Acute Toxicity Cat.4

H332 Harmful if inhaled.

STOT SE Cat. 3

H335 May cause respiratory irritation

Aquatic Chronic Cat.2

H411 Toxic to aquatic life with long lasting effects.

Issue number (date)	Section amended
Issued (October 2018)	First creation.
Issued (July 2021)	Updated sections 14 and 15
Issued (September 2021)	Update to wording in section 8
Issued (January 2022)	Added emergency number.
Issued (February 2023)	Update to sections 2, 4, 5, 7, 8, 8, 10, 11, 12
Issued (March 2026)	UFI added and emergency number updated. Updates to sections 3.2, 8.1, 15 & 16. General wording updates throughout

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.