

Vazor® Provecta

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)
with its amendment Regulation (EU) 2015/830



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

1.1 Product identifier

Product name: Vazor Provecta
Product form: Mixture

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

1.2.1. Relevant identified uses

Main use category: Professional

Use of the substance/mixture: Insecticide with a physical mode of action formulation.

Uses advised against

Use only for intended applications.

1.2. 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

1.2. Emergency telephone number

Medical professionals should contact Nation Poisons Information Service on 0344 892 0111.

Non-medical medical professionals should contact NHS Direct on 111.

SECTION 2: Hazards identification

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

Acute Tox. 4, H332
Eye Irrit. 2, H319
Aquatic Chronic 2, H411

Full text of H statements: see Section 16.

2.2. Label elements

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



Signal word: WARNING

Hazard statements: H332 Harmful if inhaled
H319 Causes serious eye irritation
H411 Toxic to aquatic life with long lasting effects

Precautionary:

P261 Avoid breathing mist/vapours/spray.
P273 Avoid release to the environment
P280 Wear protective gloves / 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 point authorized to receive hazardous waste

Hazardous components to be placed on the label:

Polyalkyleneoxide modified heptamethyltrisiloxane

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Content of hazardous compounds (compounds below general and specific concentration thresholds, not identified as PBT/vPvB, not listed as SVHC and not having community TLVs are not mentioned):

Name	Product identifier	%	Classification according to Regulation (EC) No 1272/2008 [CLP]
Polyalkyleneoxide modified heptamethyltrisiloxane	CAS: 67674-67-3 EC: none	< 85 % w/w	Acute Tox. 4 (inhal.), H332 Eye Irrit. 2, H319 Aquatic Chronic 2, H411

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

Remove injured person from a polluted environment. Remove any contaminated clothing, place in a comfortable position, provide fresh air and heat. Loosen tight clothing such as a collar, tie, belt or waistband. Never give anything by mouth to an unconscious person. In the event of health problems, immediately contact doctor, show SDS or label of the product. Inform medical personnel of first aid provided.

First-aid measures after inhalation: remove the victim from exposure area, when breathing difficulties provide oxygen, get medical help if needed.

First-aid measures after skin contact: wash contaminated skin with water and soap. In case of skin irritation get medical help. Contaminated clothing has to be washed before reuse.

First-aid measures after eye contact: rinse widely open eyes with clean water or dedicated fluid for 15 minutes, get medical help.

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First-aid measures after ingestion: rinse mouth with plenty of water, get medical help immediately. Do not induce vomiting. If occurs, keep victim's head low to avoid getting the product into respiratory tract.

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

Eye contact: eye irritation (lachrymation, reddening)

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

Information for the physician: no known antidote, treat symptomatically

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: small fires use foam, snow or powder extinguisher. For large fires use foam or water mist.

Unsuitable extinguishing media: strong stream of water, risk of environment contamination spread.

5.2. Special hazards arising from the substance or mixture

Fire hazard: 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

Protection during firefighting: Unconditionally use personal breathing apparatus and wear appropriate protective clothing during firefighting and cleaning.

General advice: evacuate all unauthorized personnel not taking action during firefighting.

Additional remarks: containers and packages endangered by fire or high temperature should be cooled down by water from a safe distance (explosion risk), or relocated from area of fire if possible and safe. Fire residues and contaminated extinguishing media has to be disposed according to current regulation. Do not dispose extinguishing media to sewers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Avoid contact with released product. Protect eyes and skin, do not inhale vapours/mist of the product. Use recommended personal protection measures. Ventilate closed areas.

Environmental precautions:

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

Methods for cleaning up: In case of unsealed container or spillage secure source of contamination and move product to empty container. Spillages should be treated by appropriate sorbent (sand, sawdust, diatomaceous earth,

vermiculite, universal sorbent), collected to closed container, labelled and safely disposed. Area of spillage should be cleaned. Cleaning up should be conducted under appropriate ventilation.

6.2. Reference to other sections

For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

7. SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling:

Read label before use of the product. Avoid direct contact with mouth, skin and eyes. Do not eat or drink during product handling. Wash hands and face after usage. Product should be used only as intended.

Industrial hygiene:

- sufficient ventilation of work area is recommended (general and local exhaust ventilation)
- provide place for eye and wash cleaning in case of contamination
- wash hands by water and soap before eating, smoking and after work end.
- follow common safety precautions of chemicals handling

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Keep only in the original, closed containers. Avoid water and humidity during storage. Keep the product away from children, food, beverage and animal feed. Store and transport at temperatures of 0 to 35°C.

7.3. Specific end use(s)

See Section 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limit Value:

There is no exposure standard allocated to hazardous components of this product.

8.2. Exposure controls

Appropriate engineering controls:

General or local mechanical ventilation of working area is sufficient.

Respiratory protection: not necessary under normal conditions with sufficient ventilation, required during exposure to high concentrations of vapours. Half mask respirator to EN140 plus, A1P2 class filter to EN141 (minimum).

Personal protective equipment:

Hand protection: Gloves Unlined synthetic rubber/PVC, (300mm) (EN374:2003 J**) eg. Solvex nitrile

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Eye protection: Goggles to EN166 34

Skin and body protection: Low levels of contamination-Coverall, type 5/6. High levels of contamination- Coverall type 4.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:	Clear, colourless liquid
Odour:	faint, characteristic
Odour threshold:	No data
pH:	5.87 (1% water emulsion)
Melting point/freezing point:	No data
Initial boiling point and boiling range:	No data
Flash point:	> 100 °C
Evaporation rate:	No data
Flammability:	Not applicable
Upper/lower flammability or explosive limits:	Not applicable
Vapour pressure:	No data
Vapour density:	No data
Relative density (20°C):	1.01 – 1.02
Solubility in water:	insoluble, emulsifies at 0.1 to 1.0 %
Partition coefficient: n-octanol/water:	Not applicable
Auto-ignition temperature:	No data
Decomposition temperature:	No data
Viscosity:	No data
Explosive properties:	None, no ingredients with explosive properties
Oxidising properties:	None, no ingredients with oxidizing properties

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity:

There are no known reactivity hazards associated with this product.
Product is not reactive under recommended conditions of storage and handling.

10.2. Chemical stability

Product is stable under recommended conditions of storage and handling.

10.3. Possibility of hazardous reactions

No data.

10.4. Conditions to avoid

High temperatures, direct sunlight, humidity.

10.5. Incompatible materials

No specific material or group of materials is likely to react with the product to produce a hazardous situation.

10.6. Hazardous decomposition products

Burning can produce the following combustion products; oxides of carbon; oxides of silicon; formaldehyde; Carbon monoxide is highly toxic if inhaled; carbon dioxide in sufficient concentrations can act as an asphyxiant; Acute overexposure to the products of combustion may result in irritation of the respiratory tract; This product contains methylpolysiloxanes which can generate formaldehyde at approximately 300 degrees Fahrenheit (150°C) and above, in atmospheres which contain oxygen. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant, and potential carcinogen.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on toxicological effects:

Classification of the product was conducted by calculation method according to regulation 1272/2008 based on the content of hazardous ingredients:

Acute toxicity (estimated):

Acute Oral Toxicity: based on data available classification criteria are not met, $ATE_{mix} > 2000$ mg/kg

Acute Dermal Toxicity: based on data available classification criteria are not met, $ATE_{mix} > 2000$ mg/kg

Acute Inhalation Toxicity: product classified as harmful if inhaled, $ATE_{mix} = 2.35$ mg/L (dust and mists)

Skin corrosion/irritation: based on data available classification criteria are not met

Serious eye damage/irritation: product classified as causing serious eye irritation

Respiratory or skin sensitization: based on data available classification criteria are not met

Germ cell mutagenicity: product does not contain any compounds with germ cell mutagenicity hazard

Carcinogenicity: product does not contain any compounds with carcinogenic hazard

Reproductive toxicity: product does not contain any compounds with reprotoxic hazard

STOT-single exposure: based on data available classification criteria are not met

STOT-repeated exposure: based on data available classification criteria are not met

Aspiration hazard: based on data available classification criteria are not met

Potential health effects:

Ingestion – may cause digestive system irritation

Inhalation – product is harmful, may cause irritation to respiratory system.

Skin – may cause irritation, sensitisation symptoms

Eyes – causing serious eye irritation

Toxicological data for product hazardous compound (polymeric silica compounds):

Acute toxicity, oral (rat): $LD_{50} > 2000$ mg/kg

Acute toxicity, dermal (rat): $LD_{50} > 4000$ mg/kg

Acute toxicity, inhalation (rat): $LC_{50} = 2$ mg/l/4h (aerosol)

Acute toxicity, inhalation (rat): $LC_{50} = 11.78$ mg/l/4h (aerosol – 5% water emulsion)

Skin irritation (rabbit): no skin irritation

Eye irritation (rabbit): strongly irritating

Sensitization (guinea pig): not sensitizing

Repeated dose toxicity, oral (rat): NOAEL: 150 mg/kg (28 days)

Germ cell mutagenicity:

- Ames-Test, result: negative (not mutagenic)
- Chromosomal aberration, result: negative
- Mammalian cytogenicity test, result: negative
- Micronucleus Test (OECD 474), result: negative.

SECTION 12: Ecological information

12.1. Toxicity

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Classification of the product was conducted by calculation method according to regulation 1272/2008 based on the content of hazardous ingredients.
Classified as toxic to aquatic life with long lasting effects.

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 data

12.4. Mobility in soil

No data

12.5. Results of PBT and vPvB assessment

This product does not meet the criteria for PBT or vPvB.

12.6. Other adverse effects

No additional information available

Ecotoxicological data for product hazardous compound (polymeric silica compounds):

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

SECTION 13: Disposal considerations

Waste treatment methods:

Wastes of the product: Keep unused product in its original container. When depositing of waste use a registered carrier and dispose of at a licensed site. Do not let product enter sewers, surface water or soil.

Suggested waste code: 16 03 05* organic wastes containing dangerous substances

Disposal of empty packaging: Recycling or disposal of empty packaging must be performed in compliance with current legislation (see Section 15)

Waste code: 15 01 10* packaging containing residues of or contaminated by dangerous substances.

SECTION 14: Transport information

In accordance with ADR/IMDG/IATA/AND/RID

14.1. UN number

UN number: 3082

14.2. UN proper shipping name

Proper Shipping Name:

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

14.3. Transport hazard class(es).

ADR (road)

Transport hazard class(es): 9
Classification code: M6
Labels: 9
Hazard identification No: 90
Packing instructions: P001, IBC03, LP01, R001
Transport category (tunnel restriction code): 3 (-)
SP 375

IMDG (sea)

Transport hazard class(es) (IMDG): 9
Danger labels (IMDG): 9
EmS codes: F-A, S-F
Marine pollutant: yes
SP Para 2.10.2.7

IATA (air)

Class or Div.: 9
Hazard Label: Miscellaneous 9
LQ: PI Y964
Passenger and Cargo Aircraft: PI 964
Cargo Aircraft Only PI: 964
SP A197

14.4. Packing group

III

14.5. Environmental hazards

Dangerous for the environment: Yes
Marine pollutant:

14.6. Special precautions for user

Tunnel restriction code (ADR): (-)

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

Not applicable.

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

- 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 (as amended).
- Commission Regulation (EU) No 453/2010 of 20 May 2010.
- Commission Regulation (EU) No 2015/830 of 28 May 2015.
- Workplace Exposure Limits EH40.

15.1.2. National regulations

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

15.2. Chemical safety assessment

Chemical safety assessment was not conducted for the product.

SECTION 16: Other information

Hazard statements in full

Acute Tox. 4 H319 Causes serious eye irritation

Eye Irrit. 2 H332 Harmful if inhaled

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

Classification abbreviations and acronyms

Acute Tox. = Acute toxicity

Aerosol = Aerosol

Aquatic Acute = Hazardous to the aquatic environment (acute)

Aquatic Chronic = Hazardous to the aquatic environment (chronic)

Asp. Tox. = Aspiration hazard

Press. Gas (Comp.) = Gas under pressure: Compressed gas

Skin Sens. = Skin sensitisation

STOT SE = Specific target organ toxicity-single exposure

Abbreviations and acronyms used In the safety data sheet

ATE: Acute Toxicity Estimate.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

CAS: Chemical Abstracts Service.

DNEL: Derived No Effect Level.

EC₅₀: 50% of maximal Effective Concentration.

IATA: International Air Transport Association.

ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.

IMDG: International Maritime Dangerous Goods.

LC₅₀: Lethal Concentration to 50 % of a test population.

LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).

NOEC: No Observed Effect Concentration.

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PBT: Persistent, Bioaccumulative and Toxic substance.
PNEC: Predicted No Effect Concentration.
REACH: Registration, Evaluation, Authorisation and Restriction of
Chemicals Regulation (EC) No 1907/2006.
UN: United Nations.
vPvB: Very Persistent and Very Bioaccumulative

Training: Personnel should be trained prior to handling of the product.

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 safety data sheet is intended to provide general health and safety guidance on the handling, storage and transportation of the preparation. The information contained in this safety data sheet is, to the best of our knowledge and belief, accurate and reliable at the time of publication. The information relates only to the specific material designated in this safety data sheet and may not be valid for such material if it is used in combination with any other material(s) or any other use than that specified herein. No liability will be accepted by Killgerm Chemicals Limited or its subsidiaries 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. This does not affect your statutory rights. It is the user's responsibility to satisfy him/herself as to the suitability in completeness of such information for his/her own particular use.