1 Identification of the preparation and the supplying Company

1.1 Vazor Cypermethrin 10 (HSE 10085)

1.2 A broad spectrum pyrethroid insecticide for the control of crawling and flying insect pests in and around domestic and public buildings and food processing factories

1.3 Killgerm Chemicals Ltd, Wakefield Road, Ossett, West Yorkshire, WF5 9AJ.
Tel: +44 (0)1924 268450 Fax: (0)1924 265033 Email: technical@Killgerm.com

1.4 Emergency telephones. Medical professionals should use National Poisons Information Service Tel: 0870 600 6266.Killgerm Chemicals Ltd, 01924 268452 (Office hours) Non-medical professionals should seek information by contacting NHS 111, Tel :111

2 Hazards identification

2.1. Classification of the substance or mixture

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

Aquatic Acute 1 H400, Aquatic Chronic 1 H410

Acute Tox 4 (Oral) H302, Skin Sens. 1 H317

Full text of H-phrases: see section 16

Adverse physicochemical, human health and environmental effects
No additional information available

2.2. Label elements

CLP Signal word : Warning

Hazard statements (CLP) :
H302 - Harmful if swallowed
H317 - May cause an allergic skin reaction
H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (CLP) :
P261 - Avoid breathing mist
P270 - Do not eat, drink or smoke when using this product
P280 - Wear eye protection, protective gloves
P302+P352 - IF ON SKIN: Wash with plenty of soap and water
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention
P501 - Dispose of contents/container to an authorised waste collection point

2.3. Other hazard

3 Composition and information on ingredients

3.2. Mixtures
Hazardous Components in Product

Ingredient Name	Classification	Concentration %	R Phrases	H Phrases
Cypermethrin cis/trans +/- 40/60 (CAS No) 52315-07-8 (EC no) 257-842-9 (EC index no) 607-421-00-4	Acute Tox 4 (Oral), Acute Tox 4 (Inhalation: dust, mist), STOT SE 3, Aquatic Acute 1, (M=1000) Aquatic Chronic 1, (M=1000) Xn; Xi N;	9,6 - 10,6	R20/22 R37 R50/53	H302 H332 H335 H400 H410

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

4 First Aid measures

4.1. Description of first aid measures

Ingestion (swallowing): If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. Immediately get medical attention.

Inhalation: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of breathing difficulties administer oxygen. In case of irregular breathing or respiratory arrest provide artificial respiration. In all cases of doubt, or when symptoms persist, seek medical advice.

Skin contact: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. If skin irritation occurs: Get medical advice/attention.

Eye contact: Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

4.2. Most important symptoms and effects, both acute and delayed:
Symptoms/injuries after inhalation: Burning sensation. Cough. Dizziness. Headache. Respiratory complaints. Nausea.
Symptoms/injuries after skin contact: Redness. Tingling/irritation of the skin.
Symptoms/injuries after eye contact: Redness, pain.
Symptoms/injuries after ingestion: Abdominal pain, nausea. Convulsions. Vomiting. See inhalation.

4.3. Indication of any immediate medical attention and special treatment needed …See 4.2

5 Fire-fighting measures

5.1. Extinguishing media
Suitable extinguishing media: Foam. Dry extinguishing powder. Carbon dioxide (CO2). Water fog.

Unsuitable extinguishing media: High power water jet.

5.2. Special hazards arising from the substance or mixture: Non-flammable.

5.3. Advice for fire-fighters
Precautionary measures fire: No open flames. No smoking.
Firefighting instructions: Evacuate and limit access. Use water spray jet to protect personnel and to cool

endangered containers.
Protection during firefighting: Wear full chemical protective clothing. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.
Other information: Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures:
General measures: When leaks or spills occur, only properly protected personnel should remain in the area.
6.1.1. For non-emergency personnel
Protective equipment: Wear suitable protective clothing, gloves and eye or face protection. In case of insufficient ventilation, wear suitable respiratory equipment.
Emergency procedures: Evacuate area. Provide adequate ventilation to minimize dust and/or vapour concentrations.
Call in an expert. Eliminate every possible source of ignition.
6.1.2. For emergency responders

Protective equipment: Wear a self-contained breathing apparatus and chemical protective clothing.

6.2. Environmental precautions: Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. Notify authorities if product enters sewers or public waters.
6.3. Methods and material for containment and cleaning up:
For containment: Prevent spreading in sewers. Impound and recover large spill by mixing it with inert granular solids.
Methods for cleaning up: Collect spills and put it into appropriated container.
Other information: Special danger of slipping by leaking/spilling product.

6.4. Reference to other sections: Exposure controls/personal protection. Disposal considerations

7 Handling and storage

7.1. Precautions for safe handling
Precautions for safe handling: Handle in accordance with good industrial hygiene and safety procedures. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not allow to enter into surface water or drains.
Handling temperature : at room temperature
Hygiene measures: Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities
Technical measures: Ground well. Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.
Storage conditions: Protect against direct sunlight.
Incompatible products: Strong acid. Strong bases. Oxidizing agents, strong.
Maximum storage period : 2 year(s)
Storage temperature : > -5 °C
Storage area: Keep container tightly closed in a cool, well-ventilated place. Provide for retaining containers, eg. floor pan without outflow.
Packaging materials: Keep only in the original container. Keep locked up.

7.3. Specific end use(s) No additional information available

8 Exposure controls and personal protection

8.1. Control parameters

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

PPE	ITEM IN USE	SPILLAGE
Respirators	Half mask respirator to EN140 plus A1P2 class filter to EN141 (minimum)	Half mask respirator to EN140 plus A1P2 class filter to EN141 (minimum)
Gloves	Unlined synthetic rubber/PVC (300mm) e.g. Solvex nitrile	Unlined synthetic rubber/PVC (300mm) e.g. Solvex nitrile
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	Face shield to EN 166 3F	Face shield to EN 166 3F

Personal protective equipment: Gloves. Gas mask. Safety glasses.
Hand protection: Wear suitable gloves resistant to chemical penetration. NBR (Nitrile rubber). For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.
Eye protection : Safety glasses (EN166 FT)
Skin and body protection : Skin protection appropriate to the conditions of use should be provided
Respiratory protection: If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.
Environmental exposure controls: Notify authorities if product enters sewers or public waters.
Other information : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure

9 Physical and chemical properties

9.1. General information

Physical state : Liquid
Appearance: opaque.
Colour: white.
Odour: characteristic.
Odour threshold : No data available
pH : 4 - 5
Relative evaporation rate (butyl acetate=1) : No data available
Melting point : No data available
Freezing point : No data available
Boiling point : No data available
Flash point : > 79 °C
Auto-ignition temperature : 385 °C
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapour pressure : No data available
Relative vapour density at 20 °C : No data available
Relative density : No data available
Density : 0,98 g/ml (20°C)
Solubility: (1% in water): Emulsion.
Log Pow : No data available
Viscosity, kinematic : 65,4 mm^2/s
Viscosity, dynamic : No data available
Explosive properties: not explosive. Regulation (EC) No. 440/2008, Annex, A.14.

Oxidising properties: not oxidizing.
Explosive limits : No data available

10 Stability and reactivity

10.1. Reactivity: When exposed to heat, may decompose liberating hazardous gases.

10.2. Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions: None under normal conditions. Refer to section 10.1 on Reactivity.

10.4. Conditions to avoid: Protect against direct sunlight. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

10.5. Incompatible materials: Strong acid. Strong bases. Strong oxidizing agents

10.6. Hazardous decomposition products: When heated to decomposition, emits dangerous fumes. Carbon dioxide (CO^2). Carbon monoxide. Nitrogen oxides (NO^x).

11 Toxicological information

11.1 Information on toxicological effects

Cypermethrin 100 g/L EW
LD50 oral rat 300 - 2000 mg/kg
LD50 dermal rabbit > 4000 mg/kg
LC50 inhalation rat (mg/l) > 5 mg/l/4h

Cypermethrin cis/trans +/- 40/60 (52315-07-8)
LD50 oral rat 500 mg/kg
LD50 dermal rat > 2000 mg/kg
LC50 inhalation rat (mg/l) 3,28 mg/l/4h

Skin corrosion/irritation: Not classified.
pH: 4 – 5

Serious eye damage/irritation : Not classified
pH: 4 – 5

Respiratory or skin sensitisation: May cause an allergic skin reaction.
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

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

Reproductive toxicity : Not classified
Specific target organ toxicity (single exposure) : Not classified
Specific target organ toxicity (repeated exposure): Not classified
Aspiration hazard : Not classified

Cypermethrin 100 g/L EW
Viscosity, kinematic 65,4 mm²/s

a) Acute toxicity: Information has been derived from the properties of the individual ingredients.
(b) Corrosiveity/Irritation: See hazard classification data para 15
(c) Sensitisation: contains no known skin or respiratory sensitizers.
(d) Repeated dose toxicity: The product has not been tested. Repeated exposure to small quantities may affect certain organs.
(e) Mutagenicity/Carcogenicity: Product does not contain any ingredients known to have such effects.

(f) Reproductive toxicity: No available data

11.2 Other data: see section 2.3

12 Ecological information

12.1. Toxicity:
Cypermethrin 100 g/L EW
LC50 fish 1 0,0242 mg/l (96h)
EC50 Daphnia 1 0,014 mg/l (48h)
ErC50 (algae) > 1000 mg/l (72h)
Cypermethrin cis/trans +/- 40/60 (52315-07-8)
LC50 fish 1 0,0028 mg/l (96h; Salmo gairdneri)
EC50 Daphnia 1 0,0003 mg/l (48h; Daphnia magna)
ErC50 (algae) > 0,1 mg/l (96h; Selenastrum capricornutum)
NOEC chronic fish 0,00003 mg/l (34d Pimephales promelas)

NOEC chronic crustacea 0,00004 mg/l Daphnia magna

12.2. Persistence and degradability: Cypermethrin cis/trans +/- 40/60 (52315-07-8) Not readily biodegradable.
12.3. Bio accumulative potential: Cypermethrin cis/trans +/- 40/60 (52315-07-8)
BCF fish 1 1204 mg/l (Salmo gairdneri)

Log Pow 5,3 - 5,6 (25°C)
12.4. Mobility in soil: Cypermethrin 100 g/L EW **Surface tension 25,6 mN/m**

12.5. Results of PBT and vPvB assessment: No additional information available
12.6. Other adverse effects: No additional information available

13 Disposal considerations

13.1. Waste treatment methods
Regional legislation (waste): Disposal must be done according to official regulations.
Waste treatment methods: Dispose of this material and its container to hazardous or special waste collection point.
Additional information: Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads). Notify authorities if product enters sewers or public waters.

14 Transport information

14.1. UN number: 3082

14.2. UN proper shipping name: ENVIRONMENTALLY
HAZARDOUS
SUBSTANCE, LIQUID,
N.O.S.

14.3. Transport hazard class(es) : 9

14.4. Packing group: III

14.5. Environmental hazards: Dangerous for the
environment : Yes
Marine pollutant : Yes

14.6. Special precautions for user:

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:

15 Regulatory information

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

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008 Cypermethrin 100 g/L EW - Cypermethrin cis/trans +/- 40/60

3.b. Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10 Cypermethrin 100 g/L EW - Cypermethrin cis/trans +/- 40/60 - -

3.c. Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1 Cypermethrin 100 g/L EW - Cypermethrin cis/trans +/- 40/60 -

15.2. Chemical safety assessment: Advice on product handling can be found in sections 7 and 8.

16 Other information

This 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.

Ingredient classification
Acute Tox. 4 (Inhalation: dust, mist) Acute toxicity (inhalation: dust, mist) Category 4
Acute Tox. 4 (Oral) Acute toxicity (oral), Category 4
Aquatic Acute 1 Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1 Hazardous to the aquatic environment — Chronic Hazard, Category 1
Skin Sens. 1 Sensitisation — Skin, category 1
STOT SE 3 Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H302 Harmful if swallowed
H317 May cause an allergic skin reaction
H332 Harmful if inhaled
H335 May cause respiratory irritation
H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long lasting effects
R20/22 Harmful by inhalation and if swallowed
R37 Irritating to respiratory system
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
N Dangerous for the environment
Xi Irritant
Xn Harmful