

1 Identification of the preparation and the supplying Company

1.1 Vazor Fumigator (HSE 10483)

1.2 Insect fumigator PT18 (Insecticide water reactive fumigator)

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**

Resp. Sens. 1

Eye Dam. 2

Aquatic Acute 1

Aquatic Chronic 1

STOT SE 3

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H319 Causes serious eye irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H335 May cause respiratory irritation.

Hazard-determining components of labelling:

- Calcium oxide

- C,C'-azodi(formamide)

2.2. Label elements

Signal word: DANGER

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H319 Causes serious eye damage.

H410 Very toxic to aquatic life with long lasting effects.

H335 May cause respiratory irritation.

Precautionary statement:

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

P261 Avoid breathing mist.

P273 Avoid release to the environment.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse

skin with water/shower.

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+P341+P342 +P311 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: Call a POISON CENTER or doctor/physician

P405+P403+P233 Store locked up in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3. Other hazard

3 Composition and information on ingredients

3.2. Mixtures

Hazardous Components in Product

Ingredient Name	Classification	Concentration	H Phrases
Cyphenothrin (CAS No:39515-40-7)	Aquatic Acute 1 Aquatic Chronic 1 Acute Tox. 4	7.2%(m/m)	H400, H410, H302, H332
Azodicarbonamide (CAS No: 123-77-3)	Resp. Sens. 1	90.8%(m/m)	H334
Calcium Oxide (CAS No: 1305-78-8)	Eye dam.1 Skin Irrit. 2 STOT SE.3	65g per 10g Fumigator	H318, H315, H335

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

4 First Aid measures

4.1. Description of first aid measures

Ingestion (swallowing): Do not induce vomiting. Rinse out mouth and then drink plenty of water. Seek medical advice immediately, informing this product is a pyrethroid insecticide.

Inhalation: Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor

Skin contact: Take off contaminated close and shoes. Wash contaminated area with soap and water. If pain or other abnormal symptoms occurs, seek medical attention immediately.

Eye contact: May cause mild irritation if in contact during fumigation. Rinse opened eye for several minutes under running water. Remove contact lenses if possible, and wash eye and behind eye-lids thoroughly. Seek medical advice immediately.

4.2. Most important symptoms and effects, both acute and delayed: No further relevant information

available

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

5 Fire-fighting measures

5.1. Extinguishing media: CO₂, dry chemical powder, foam. Do not use water.

5.2. Special hazards arising from the substance or mixture: Nitrogen oxides (NO_x), Carbon monoxide (CO) and Carbon dioxide (CO₂)

5.3. Advice for fire-fighters

Wear self-contained respiratory equipment and full protective suit.

Other recommendations

For safety reasons unsuitable extinguishing agents: water spray/water with full jet if you cannot contain runoff to prevent entry into water or drainage systems.

In the case of fire wear self-contained respiratory equipment and full protective suit. Contain runoff to prevent entry into water or drainage systems.

6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures: Keep unprotected persons away. Do not breathe dust. Do not breathe vapours. Avoid contact with skin and eyes.

Please notice instructions for person-related safety precautions and wear protective equipment

(see 8.)

6.2. Environmental precautions: Do not allow to enter sewers/ surface or ground water. Inform respective authorities in case product reaches water or sewage system.

6.3. Methods and material for containment and cleaning up: Pick up mechanically the solid product into a container suitable for its recovery or disposal. Ensure adequate ventilation.

Place into lockable, labelled salvage container for disposal according to the regulations.

6.4. Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See section 13 for disposal information.

7 Handling and storage

7.1. Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of dust.

Avoid contact with skin and eyes.

If dust/smoke is developed, avoid breathing dust/smoke.

Make sure that all applicable workplace limits are observed.

Keep away humidity and water.

Avoid contact with water.

Protect from fire.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures

Store in tightly closed containers in a cool, well ventilated and dry place. Do not store food, beverages and animal feeding stuffs in the storage area. Keep container tightly sealed.

Only store in the original packaging. Do not re-use the empty packaging. Sensitive to frost.

Keep away humidity and water. Protect from fire. Temperature Ambient

7.3. Specific end use(s)

Use only according to instructions.

8 Exposure controls and personal protection**8.1. Control parameters**

Ingredients with limit values that require monitoring at the workplace:

1305-78-8 Calcium oxide

WEL (Great Britain)

Long-term value: 2 mg/m³

123-77-3 C,C'-azodi(formamide)

WEL (Great Britain)

Short-term value: 3.0 mg/m³

Long-term value: 1.0 mg/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

PPE	ITEM IN USE
Respirators	Full face mask A1P3 Filter
Gloves	Nitrile gloves to EN 374
Overall	Tyvek 5/6

9 Physical and chemical properties**9.1. General information**

Form: Granulate

Colour: yellow to orange

Smell: characteristic

Odour threshold: no data available

pH-value: no data available

Melting point/Melting range: not determined

Boiling point/Boiling range: not determined

Flash point: not applicable

Inflammability (solid, gaseous) Product is not flammable.

Ignition temperature: not determined

Decomposition temperature: not determined

Self-inflammability: Product is not self-igniting.

Danger of explosion: Product is not explosive.

Critical values for explosion:

Lower: no data available

Upper: no data available

Oxidizing properties not applicable

Vapor pressure: not determined

Density: not determined

Solubility in / Miscibility with

Water: Reacts with water.

Partition coefficient (n-octanol/water): not applicable

Viscosity: not applicable

dynamic: not applicable

kinematic: not applicable

10 Stability and reactivity

10.1. Reactivity: Stable under usual conditions.

10.2. Chemical stability: Avoid thermal decomposition do not overheat.

10.3. Possibility of hazardous reactions: No hazardous reactions known if used according to specifications.

10.4. Conditions to avoid: No further relevant information available.

10.5. Incompatible materials: Strong oxidizing agents, water.

10.6. Hazardous decomposition products: Nitrogen oxides (NO_x), Carbon monoxide (CO) and Carbon dioxide (CO₂). Decomposes in contact with water under formation of insecticidal smoke.

11 Toxicological information**11.1 Information on toxicological effects**

LD/LC50 values relevant for classification:

Oral LD50 > 10000 mg/kg (rat) product

Dermal LD50 > 5000 mg/kg (rat) product

Inhalative LC50/4h > 1050 mg/m³ (rat) Product

Ingredients acute toxicity:

C,C'-azodi(formamide) (CAS 123-77-3)

Oral LD50 > 6800 mg/kg (rat)

alpha-cyano-3-phenoxybenzyl 2,2-dimethyl-3-(2-methylprop-1-enyl)cyclopropanecarboxylate (CAS 39515-40-7)

LD50 oral male rat: 318 mg/kg.

LD50 oral female rat: 419 mg/kg.

LD50 dermal female rat: > 5000 mg/kg.

LC50 inhalation rat: > 1.85 mg/l/4h

(a) acute toxicity; This product is not classified as acutely toxic

(b) irritation; This product may cause respiratory irritation.

(c) corrosivity; This product is classified as Eye Damage category 2 H319 Causes serious eye irritation.

(d) sensitisation; This product is classified as Respiratory Sensitizer category 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

(e) repeated dose toxicity; This product is not classified for repeat dose toxicity, but is classified as STOT SE 3 (Specific target organ toxicity-Single exposure) H335 May cause respiratory irritation

(f) carcinogenicity; This product is not classified as a carcinogen.

(g) mutagenicity; This product is not classified as a mutagen.

(h) toxicity for reproduction; This product is not classified as toxic to reproduction.

11.2 Other data: see section 2.3

12 Ecological information

12.1. Toxicity: Calcium oxide (CAS 1305-78-8)

EC50/48 h 159.6 mg/l (water flea (daphnia magna))

LC50/24 h 160 mg/l (freshwater shrimp (Gammarus. sp.))

LC50/96 h 1070 mg/l (carp (cyprinus carpio))

Alpha-cyano-3-phenoxybenzyl 2,2-dimethyl-3-(2-methylprop-1enyl)cyclopropanecarboxylate (CAS 39515-40-7)

EC50/48 h 0.00043 mg/l (water flea (daphnia magna))

LC50/96 h 0.00037 mg/l (rainbow trout (oncorhynchus mykiss))

General notes:

Do not allow product to reach ground water, water course or sewage system

12.2. Persistence and degradability: No further data available

12.3. Bio accumulative potential: No further data available

12.4. Mobility in soil: No further data available

12.5. Results of PBT and vPvB assessment: No further data available

12.6. Other adverse effects: No further data available

13 Disposal considerations

13.1. Waste treatment methods

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Disposal must be made according to official regulations. Hand over to disposers of hazardous waste. Disposal of soiled packaging. Do not reuse empty contaminated packaging for other purposes; dispose according to official regulations.

14 Transport information

14.1. UN number: UN3077, UN1910

14.2. UN proper shipping name: Environmentally hazardous substance, solid, n.o.s. (cyphenothrin)
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., MARINE POLLUTANT CALCIUM OXIDE

14.3. Transport hazard class(es): ADR, IMDG: **Class 9 (M7) Miscellaneous dangerous substances and articles**

IATA: Class 8 Corrosive substances

14.4. Packing group: III

14.5. Environmental hazards: Symbol (fish and tree)

14.6. Special precautions for user: Warning: Miscellaneous dangerous substances and articles.

Kemler Number: 90

EMS Number: F-A,S-F

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

Not applicable

Other informations :

ADR additional informations

Excepted quantities (EQ): E1

· Limited quantities (LQ): 5 kg

· Transport category: 2

· Tunnel restriction code: D

15 Regulatory information

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

This formulation is beyond the scope of Regulation (EC) No 2037/2000 of European Parliament and the Council of 29 June 2000 on substances that deplete the ozone layer.

This formulation is beyond the scope of Regulation (EC) No 850/2004 of the European Parliament and the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

This formulation is beyond the scope of Regulation (EC) No 689/2008 of the European Parliament and the Council of 17 June 2008 concerning the export and import of dangerous chemicals.

This formulation is not subject to special provisions for the protection of human health or the environment at Community level.

Quantity limits according to "EC Seveso directive" should be observed.

15.2. Chemical safety assessment: No chemical safety assessment available. Advice on product handling can be found in sections 7 and 8.

16 Other information

Aquatic Acute 1; Aquatic Acute toxicity category 1
Aquatic Chronic 1; Aquatic Chronic toxicity category 1
Acute Tox. 4; Acute toxicity category 4
Resp. Sens. 1; Respiratory Sensitizer category 1
Eye dam.1; Eye damage category 1
Skin Irrit. 2; Skin Irritation category 2
STOT SE.3; Specific Target Organ Toxicity Single Exposure category 3

H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Abbreviations and acronyms:

CAS: Chemical Abstracts Service (division of the American Chemical Society)

EINECS: European Inventory of Existing Commercial Chemical Substances

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

CLP: REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

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.