

1 Identification of the preparation and the supplying Company

1.1 Cypermethrin 10%EC

1.2 An emulsifiable, concentrated insecticide for dilution with water for application to surfaces.

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1.4 Emergency telephones. National Poisons Information Service 0870 600 6266 (for professional medical personnel only), NHS 24 service 111 (for non-professionals), National Poisons Information Centre 01-8092166 (Ireland Only)

Killgerm Chemicals Ltd, 01924 268452 (Office hours)

2 Hazards identification**2.1. Classification of the substance or mixture**

According to Regulation (EC) 1272/2008

Flammable category 3



H226: Flammable liquid and vapour

Asp TOX 1



H304: May be fatal if swallowed and enters airways

Aq Chronic 2



H411: Toxic to aquatic life with long lasting effects

According to Directive 1999/45/EC



Xn – Harmful; may cause lung damage if swallowed.



Dangerous for the environment.



F – Flammable.

2.2. Label elements

The following safety phrases are appropriate (Directive 1999/45/EC):

S2- Keep out of the reach of children.

S7- Keep container tightly closed.

S16-Keep away from sources of ignition- No Smoking

The following precautionary phrases are appropriate (Regulation (EC) 1272/2008):

P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking

P233: Keep container tightly closed

P240: Ground/bond container and receiving equipment

P241: Use explosion-proof electrical/ventilating/light/.../equipment

P242: Use only non-sparking tools

P243: Take precautionary measures against static discharge

P280: Wear protective gloves/protective clothing/eye protection/face protection

P303+361+353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

P370+378: In case of fire: Use (see section 5) for extinction

P403+235: Store in a well-ventilated place. Keep cool

P273: Avoid release to the environment

P391: Collect spillage

P501: Dispose of contents/container in accordance with national regulations

P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

P331: Do NOT induce vomiting

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 tech CAS No:52315-07-8	Acute toxicity, Oral - Category 4 Acute toxicity, Inhalation - Category 4 - Specific Target Organ Toxicity - Single exposure - Respiratory tract irritation - Category 3 - Hazardous to the aquatic environment - Acute hazard - (Aquatic Acute 1) Hazardous to the aquatic environment - Chronic hazard - Category 1 - Warning (Aquatic Chronic 1)	10.7%w/w (Xn. N.)	R20/22. R50/53	H302 - Harmful if swallowed. H332 - Harmful if inhaled. H335 - May cause respiratory irritation. H410 - Very toxic to aquatic life with long lasting effects

Emulsifiers	Eye Dam. 1.; Skin irritation 2.; Flam. Liquid 3.; Specific Target Organ Toxicity after Single Exposure (STOT SE) 3,	4.3%w/w (Xi.)	R38. R10. R41. R67	H335 & H336 H315, H318, H226
Aromatic solvent	Target organ toxicant (central nervous system): Category 3. Aspiration toxicant: Category 1. Chronic aquatic toxicant: Category 2.	85.0%w/w (N.)	R51/53. R65. R66. R67	H304: May be fatal if swallowed and enters airways. H336: May cause drowsiness or dizziness. H411: Toxic to aquatic life with long lasting effects.

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): Do not induce vomiting. Get medical attention. Wash out mouth with water. If spontaneous vomiting has occurred keep patient at rest, ensuring airways are clear and phone for an ambulance with oxygen facilities

Inhalation: Remove to fresh air. Loosen clothing at neck. Keep at rest. Get medical attention

Skin contact: Remove contaminated clothing. Wash off with soap and water. Get medical attention.

Eye contact: Flush thoroughly with eye wash solution or clean water for 15 minutes. Get medical attention

4.2. Most important symptoms and effects, both acute and delayed: Main hazard is aspiration into the lungs resulting in chemical pneumonitis . See also para 11.1

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

5 Fire-fighting measures

5.1. Extinguishing media: Use dry powder or foam fire extinguishers. DO NOT USE WATER JET.

5.2. Special hazards arising from the substance or mixture: Toxic fumes will be evolved in a fire

5.3. Advice for fire-fighters: Self-contained breathing apparatus should be worn by fire fighters

6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures: Wear appropriate PPE.

6.2. Environmental precautions: Do not allow to enter sewers/surface or ground water

6.3. Methods and material for containment and cleaning up: Absorb in sand, earth or proprietary product, shovel into a marked container and contact a waste disposal firm or suppliers for disposal advice. Wash area with water.

6.4. Reference to other sections:

7 Handling and storage

7.1. Precautions for safe handling

This product is subject to the Food and Environment Protection Act, 1985 and The Control of Pesticides Regulations 1986 made under it. The product must be used and stored only in accordance with the product label.

The (COSHH) Control of Substances Hazardous to health Regulations 2002 may apply to the use of this product at work. Wear suitable protective clothing, gloves and eye/face protection. AVOID EXCESSIVE CONTAMINATION OF COVERALLS AND LAUNDRER REGULARLY. Do not breathe spray. Otherwise wear respiratory protective equipment and eye protection (see HSE Guidance Booklet HS(G)53: "The Selection, Use and Maintenance of Respiratory Protective Equipment – a practical guide"). DO NOT CONTAMINATE FOODSTUFFS, EATING UTENSILS OR FOOD

CONTACT SURFACES. COVERWATER STORAGE TANKS before application. This material and its container must be disposed of in a safe way. WHEN USING, DO NOT EAT, DRINK OR SMOKE. UNPROTECTED PERSONS AND ANIMALS SHOULD BE KEPT AWAY FROM TREATED AREAS UNTIL SURFACES ARE DRY. REMOVE OR COVER ALL FISH TANKS AND BOWLS before application. Do not contaminate water bodies or watercourses with chemicals or used container. AVOID ALL CONTACT WITH PLANT LIFE. DO NOT APPLY DIRECTLY TO LIVESTOCK AND POULTRY. If swallowed, do not induce vomiting: seek medical advice immediately and show this container label. WASH SPLASHES from skin or eyes immediately. WASH HANDS AND EXPOSED SKIN before meals and after use. Use biocides safely. Always read the label & product information before use.

Read safety data sheet before using this product.

7.2. Conditions for safe storage, including any incompatibilities

Keep only in the original container. Keep container tightly closed. KEEP IN A SAFE PLACE.

Keep out of the reach of children.

Keep away from sources of ignition – No Smoking.

Keep away from food, drink and animal feeding stuffs.

Do not use, store or spill near open flame or electric fire.

Protect from frost.

When not in use, store upright with cap tightly screwed on.

7.3. Specific end use(s)

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) eg. Solvex nitrile	Unlined synthetic rubber/PVC (300mm) eg. 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/ Faceshield	Face shield to EN 166 3F	Face shield to EN 166 3F

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

Appearance: Light brown coloured clear liquid

Odour: Slight odour (irritating vapour)

pH: Not applicable

Density: 0.934

Flash Point: 53⁰C

Flammability: Will burn at room temperatures to give toxic combustion products

Boiling point/boiling range: not available

Vapour density: not available

Vapour pressure: not available

Melting point/freezing point: not available

Solubility in water: Forms a white emulsion in water

Solubility in other solvents: not available

Explosive properties: not available

Combustibility: will burn

Oxidising properties: Not an oxidising agent

Evaporation rate: not available

Partition coefficient: not available

Decomposition temp: not available

Auto-ignition temp: not available

10 Stability and reactivity

10.1. Reactivity: Flammable but not a reactive preparation.

10.2. Chemical stability: Chemically stable

10.3. Possibility of hazardous reactions: Not applicable

10.4. Conditions to avoid: Extremes of temperature

10.5. Incompatible materials:

10.6. Hazardous decomposition products: Oxides of carbon and other toxic products

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

1. Inhalation: Irritating to lungs and nasal passages.
2. Skin and eyes: Irritating to skin and eyes.
3. Ingestion: Hazardous if ingested in large quantities.
4. Symptoms of contact: A wide range of toxic effects including irritation, coughing, muscular spasms, tingling of skin and twitching.

(a) Acute toxicity: Information has been derived from the properties of the individual ingredients.

(b) Corrosivity/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: Ecological toxicity has been derived from the properties of individual ingredients. No testing has been carried out.

Ecological toxicity for ingredients is as follows

Cypermethrin

Ecological effects information : Very toxic to aquatic life with long lasting effects.

48 H-EC50 - Daphnia magna [mg/l] : 0.0003

LC50-96 Hour - fish [mg/l] : 0.0028

IC50 72h Algae [mg/l] : > 0.1

Bees LD50 [µg/bee] : 0.02 [24 h]

12.2. Persistence and degradability: not available

12.3. Bioaccumulative potential: Will not occur

12.4. Mobility in soil: not available

12.5. Results of PBT and vPvB assessment: not available

12.6. Other adverse effects: not available

13 Disposal considerations

13.1. Waste treatment methods

Empty containers: Do not re-use – empty completely. Dispose of as controlled waste. Ensure containers are empty. Treat as hazardous waste. Use EWC (European Waste Catalogue) code 20 01 19 on consignment notes. Treat empty packaging as hazardous waste, use EWC code 20 01 19.

Unused/recovered materials: Do not dispose in domestic waste. Dispose of as controlled waste. Treat as hazardous waste. Use EWC code 20 01 19

Contaminated PPE/ wipes/contaminated boxes/ spill control material: Treat as controlled waste. For low levels of contamination, treat as non-hazardous waste. Use EWC code 15 02 03. For heavily contaminated items treat as hazardous waste and use EWC code 15 02 02*. Contact supplier for advice on disposal matters.

14 Transport information

14.1. UN number: UN no. 1993

14.2. UN proper shipping name:

14.3. Transport hazard class(es) : Class 3.3

14.4. Packing group: Packing Group III.

14.5. Environmental hazards:

14.6. Special precautions for user: Flammable

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:

This preparation has been classified in accordance with The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009: CHIP 4. These implement the Dangerous Preparations Directive- 99/35/EC. This Safety Data Sheet complies with CHIP 4 requirements and the Safety Data Sheets Directive 91/155/EEC (as amended by Directives 93/112/EC and 2001/58/EC). Refer to other relevant measures such as the Health and Safety at Work etc Act 1974 and the COSHH regulations and guidance.

The information contained in this data sheet does not constitute the user's own assessment of workplace risks as required by legislation.

Approved under The Control of Pesticides Regulations 1986. HSE no. 3136.

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.

Hazard Classification: Xn_ Harmful. F- Flammable. N- Dangerous for the environment.

Risk Phrases: R10- Flammable

R65- Harmful; may cause lung damage if swallowed.

R51/53-Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases: S2- Keep out of the reach of children.

S7- Keep container tightly closed.

S16-Keep away from sources of ignition- No Smoking.

H302: Harmful if swallowed

H332: Harmful if inhaled

H335: May cause respiratory irritation

H410: Very toxic to aquatic life with long lasting effects

H336: May cause drowsiness or dizziness

H318: Causes serious eye damage

H315: Causes skin irritation

H226: Flammable liquid and vapour

H304: May be fatal if swallowed and enters airways

H411: Toxic to aquatic life with long lasting effects

P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking

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