

1	Identification of the preparation and the supplying Company	Killgerm ULV 400. A ready to use insecticide for professional use. Killgerm Chemicals Ltd, Denholme Drive, Ossett, West Yorkshire, WF5 9NA. Tel: +44 (0)1924 268450 Fax: (0)1924 265033 Email: technical@Killgerm.com										
2	Hazards identification	X_n HARMFUL – May cause lung damage if swallowed. R65. N Dangerous for the environment – Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment. R51/53.										
3	Composition and information on ingredients	Active ingredients:- Pyrethrins Composition:- <table style="margin-left: 20px;"> <tr> <td>Pyrethrins</td> <td>- 3.6%w/w (Xn. N. R20/21/22. R50/53)</td> </tr> <tr> <td>Inert components of pyrethrum extract</td> <td>- 10.8%w/w</td> </tr> <tr> <td>Piperonyl butoxide</td> <td>- 17.9%w/w (N. R50/53)</td> </tr> <tr> <td>Odourless kerosene</td> <td>- 67.7%w/w (Xn. R65. R66)</td> </tr> </table> See Paragraph 16 for full text of R-phrases and hazard classification of ingredients.	Pyrethrins	- 3.6%w/w (Xn. N. R20/21/22. R50/53)	Inert components of pyrethrum extract	- 10.8%w/w	Piperonyl butoxide	- 17.9%w/w (N. R50/53)	Odourless kerosene	- 67.7%w/w (Xn. R65. R66)		
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5	Fire-fighting measures	Extinguishers: Use water spray, dry powder or foam. DO NOT USE WATER JET. Self-contained breathing apparatus should be worn by fire fighters. Warn those at risk that toxic fumes are evolved. Advise the water authority if material has entered the drains.										
6	Accidental release measures	Spillages (containment and disposal): Wear appropriate PPE. Remove sources of ignition. Absorb in sand, earth or proprietary product, shovel into marked container and contact a waste disposal firm or the supplier for disposal advice. Indoors, wash area with soap and water. Outdoors, do not wash spillages or contaminated material to drains. Shovel up contaminated soil, vegetation, etc., and transfer to a marked container. Dispose of via a contractor or contact supplier for advice. Use appropriate containment to avoid environmental contamination.										
7	Handling and storage	<table style="width: 100%;"> <tr> <td style="width: 30%;">Precautions in use:</td> <td> 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. Keep away from sources of ignition- no smoking. Avoid contact with skin. Wear suitable protective clothing and gloves. AVOID EXCESSIVE CONTAMINATION OF COVERALLS AND LAUNDER REGULARLY. Do not breathe mist. 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. COVER WATER STORAGE TANKS before application. This material and its container must be disposed of in a safe way. EXCLUDE ALL PERSONS AND ANIMALS DURING TREATMENT. DO NOT APPLY DIRECTLY TO ANIMALS. REMOVE OR COVER ALL FISH TANKS AND BOWLS before application. Do not contaminate ground, waterbodies or watercourses with chemicals or used container. AVOID ALL CONTACT WITH PLANT LIFE DO NOT APPLY DIRECTLY TO LIVESTOCK AND POULTRY. WASH ANY CONTAMINATION from skin or eyes immediately. WASH HANDS AND EXPOSED SKIN before meals and after use. VENTILATE TREATED AREAS THOROUGHLY after application. COLLECT EGGS AND REMOVE FEED, EXPOSED WATER AND MILK BEFORE APPLICATION. Protect milk machinery and milk containers from contamination. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. Avoid release to the environment. Use appropriate containment to avoid environmental contamination. Read label for other handling precautions. </td> </tr> <tr> <td>Storage and transport precautions:</td> <td> Keep only in the original container. Keep container tightly closed. KEEP IN A SAFE PLACE. Keep out of the reach of children. Protect from frost. When not in use, store upright with cap screwed tightly on. </td> </tr> </table>	Precautions in use:	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. Keep away from sources of ignition- no smoking. Avoid contact with skin. Wear suitable protective clothing and gloves. AVOID EXCESSIVE CONTAMINATION OF COVERALLS AND LAUNDER REGULARLY. Do not breathe mist. 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. COVER WATER STORAGE TANKS before application. This material and its container must be disposed of in a safe way. EXCLUDE ALL PERSONS AND ANIMALS DURING TREATMENT. DO NOT APPLY DIRECTLY TO ANIMALS. REMOVE OR COVER ALL FISH TANKS AND BOWLS before application. Do not contaminate ground, waterbodies or watercourses with chemicals or used container. AVOID ALL CONTACT WITH PLANT LIFE DO NOT APPLY DIRECTLY TO LIVESTOCK AND POULTRY. WASH ANY CONTAMINATION from skin or eyes immediately. WASH HANDS AND EXPOSED SKIN before meals and after use. VENTILATE TREATED AREAS THOROUGHLY after application. COLLECT EGGS AND REMOVE FEED, EXPOSED WATER AND MILK BEFORE APPLICATION. Protect milk machinery and milk containers from contamination. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. Avoid release to the environment. Use appropriate containment to avoid environmental contamination. Read label for other handling precautions.	Storage and transport precautions:	Keep only in the original container. Keep container tightly closed. KEEP IN A SAFE PLACE. Keep out of the reach of children. Protect from frost. When not in use, store upright with cap screwed tightly on.						
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8 Exposure controls and personal protection

Occupational exposure limits Oil mist mineral, odourless kerosene. UK.EH402002. Maximum Exposure Limit: 5mg/m³ (8 hour),
10mg/m³ (15 mins).

PPE Item	In Use	Spillage
Respirator	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/ Face shield	Face shield to EN166 3F	Face shield to EN166 3F

9 Physical and chemical properties

Appearance: Yellow coloured liquid.
pH: Not applicable.
Flash point: 66°C but will burn at ordinary temperature..
Flammability: Will burn at room temperature.
Bulk density: 0.834
Solubility: Immiscible with water (product floats on it).
Odour: Slight kerosene odour.
Incompatibility: Incompatible with strong oxidising agents, strong acids and strong bases.

10 Stability and reactivity

Not a reactive preparation.

11 Toxicological information

Routes of entry/symptoms of contact:
Inhalation: In normal circumstances, the low volatility of this product does not give rise to harmful concentrations. Precautions should be taken to prevent exposure to product mist.
Skin and eyes: Kerosene is a moderate skin irritant which de-fats and dries the skin. Prolonged or repeated contact can give rise to severe irritation or cause dermatitis. Irritating to eyes.
Ingestion: The main hazard of swallowing the product arises from any consequent aspiration into the lungs which may cause chemical pneumonitis.

12 Ecological information

- Preparation is classified as (N) Dangerous for the environment. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- The active ingredients & piperonyl butoxide giving rise to this classification are rapidly degraded in air, water and on contact with soils and organic matter. Odourless kerosene is highly volatile and will rapidly evaporate and degrade in air. The product is essentially insoluble in water (it will float on the top of water). It is readily and rapidly biodegradable. No acute toxicity to aquatic organisms is expected at the maximum water solubility (<0.10%w/w) of odourless kerosene.
- Long-term adverse effects to aquatic organisms are not expected.
- Adverse environmental effects arising as a consequence of use of ULV 400 (in situations for which it is approved and as indicated on the label) have not occurred and none are expected.

13 Disposal considerations

Empty containers: Do not re-use – empty completely. Dispose of as below.
Unused/recovered materials: Do not dispose in domestic waste. Dispose of as below.
Contaminated PPE: Treat as controlled waste. Contact supplier for further advice.

14 Transport information

UN No 3082. Class 9. Packing Group III.
Marine pollutant
Environmentally hazardous substance, liquid N.O.S.
Contains 17.9% Piperonyl Butoxide and 3.6% Pyrethrins.

15 Regulatory information

- This preparation has been classified in accordance with The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002: CHIP 3. These implement the Dangerous Preparations Directive- 99/35/EC. This Safety Data Sheet complies with CHIP 3 requirements and the Safety Data Sheets Directive 91/155/EEC (as amended by Directives 93/112/EC and 2001/58/EC).
- Restricted to professional users.
- 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.
- Hazard symbols: - Xn. Harmful. N. Dangerous for the environment.
- Risk phrases: - R65. R51. R53.
- Safety phrases: - S2, S13, S57, S61, S62.
- This product is approved under the Control of Pesticides Regulations 1986. HSE no 4838.
- This data sheet has been amended in sections 2, 3 & 16 since the previous revision/issue.

16 Other information

Use only in accordance with label instructions.

Ingredient classification data:

R20/21/22- Harmful by inhalation, in contact with skin and if swallowed.

R65- Harmful: May cause lung damage if swallowed.

R66- Repeated exposure may cause skin dryness or cracking.

R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S2- Keep out of the reach of children.

S13- Keep away from food, drink and animal feeding stuffs.

S57- Use appropriate containment to avoid environmental contamination.

S61- Avoid release to the environment. Refer to special instructions/safety data sheet.

S62- If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Do not spray. Do not dilute.

The information in this data sheet should be considered when undertaking a risk assessment under the COSHH regulations.

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.

Incorporates the REACH requirement changes to safety data sheets.
