



MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier:

ZER905 – ZERO IN TOTAL INSECT KILLER – 300ml AEROSOL (HSE: 9493, PCS: 96837)

1.2 Relevant uses of the substance or mixture and uses advised against:

Aerosol Insecticide

1.3 Details of the supplier of the safety data sheet:

Supplier:

The Safety Supply Company
Unit 2 Abbey Manufacturing Estate Mount Pleasant
Wembley HA0 1NR, UK

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Risk advice to man and the environment:

Pressurised Container, heating will cause pressure rise with a risk of bursting.

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F+ - Extremely flammable.



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

3.COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Chemical nature

Aerosol dispenser (AE)

0.15%(w/w) Permethrin & 0.2%(w/w) Tetramethrin

3.2 Hazardous components

Chemical Name	CAS No.	Symbol(s)	R-Phrase(s)	Conc. [%]
Permethrin	52645-53-1	Xn, N	R20/22, 43, 50/53	0.15
Tetramethrin	7696-12-0	N	R50/53	0.20
Pipronyl Butoxide	51-03-6	N	R50/53	0.60
White spirit	64742-82-1	Xn, N, F	R10, 51/53, 65, 66	>5.0
Butane	106-97-8	F+	R12	> 1.0

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

4.FIRST AID MEASURES

4.1 Description of first aid measures

General Advice

Move out of dangerous area. Place and transport victim in stable position (laying down). Remove all contaminated clothing immediately and launder or dispose of safely

Inhalation

Move to fresh air. Keep patient warm and at rest. If symptoms persist call a physician

Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical attention if irritation develops and persists.

Skin Contact

In case of skin contact, immediately wash with plenty of soap and water for at least 15 minutes. After skin contact, apply vitamin E or simple body milk. If symptoms persist call a physician

Ingestion

Rinse mouth out and give water in small sips to drink. Do NOT induce vomiting. If swallowed seek medical advice immediately and show this container or label

Notes to physician

No specific treatment. May cause paraesthesia which is usually transient within 24 hours. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled

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5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

5.2 Unsuitable extinguishing media

High volume water jet

5.3 Special Hazards arising from the substance or mixture

Dangerous gases are evolved in the event of a fire

Heated containers may increase in pressure and may burst

5.4 Special protective equipment for fire-fighters

In the event of fire and/or explosion do not breathe fumes

In the event of fire wear self-contained breathing apparatus

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Keep people away from and upwind of spill/leak. Avoid contact with spilled product or contaminated surfaces. When dealing with spillage wear appropriate PPE (see section 8). Remove all sources of ignition. When dealing with spillage do not eat, drink or smoke

6.2 Environmental Precautions

Do not allow to get into surface water, drains and ground water. If spillage enter drains leading to sewage works inform local water company immediately. If spillage enters rivers or water courses, inform the Environment Agency (emergency number 0800 807060)

6.3 Methods and material for containment and cleaning up

Soap up with inert absorbent material (eg sand, silica gel, binders). Keep in suitable closed containers for disposal (See section 13). Clean contaminated floors and objects thoroughly, observing environmental regulations

7. HANDLING AND STORAGE

7.1 Precaution for safe handling

No specific precautions required when handling unopened packs/containers. Follow relevant manual handling advice. Appropriate PPE should be worn when necessary. Do not eat, drink or smoke when handling. Avoid release into the environment. Empty containers may contain hazardous product residue.

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This product is extremely flammable. Vapours may form explosive mixture with air. Fire or intensive heat may cause violent rupture of packages. Keep away from heat and sources of ignition.

7.2 Conditions for safe storage, including any incompatibilities

Keep out of reach of children. Store only in original container, in a dry, cool and well ventilated place. Keep away from direct sunlight. Keep away from food, drink and animal feedingstuffs. Protect from frost. Store below 50°C.

7.3 Specific end use(s)

N/A

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

Refer to COSHH assessment (Control of substances Hazardous to Health (Amendment) Regulations 2004). Engineering controls should be used in preference to personal protective equipment wherever practicable. Refer to COSHH essentials.

Component	CAS No	Exposure Limits	Basis
Permethrin	52315-07-8	0.05mg/m ³	OES
White Spirit	64742-82-1	600mg/m ³	OES
Butane	106-97-8	1,450mg/m ³ /600ppm (TWA)	EH40 WEL
Butane	106-97-8	1,810mg/m ³ /750ppm (STEL)	EH40 WEL

WEL = Workplace Exposure Limit.

8.2 Exposure controls

Monitoring

If product contains component(s) with exposure limits, personal, workplace, atmospheric or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use protective respiratory equipment. Reference should be made to European standard EN689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods of the determination of hazardous substances

Occupational Exposure

If user operations generate dust, fumes, gas, vapour or mist use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended statutory limits

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Hygiene Measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, drinking, smoking and using the lavatory at the end of a working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing

Respiratory Protection

This product should not require respiratory protection if used in accordance with the label. **For emergency or other use:** Chemical resistant, impervious gloves complying with an approved standard should be worn at all times when handling the product if a risk assessment indicates this is necessary. Dispose of when contaminated inside or when perforated. Hands should be washed even after wearing gloves before eating, drinking, smoking or using the lavatory. Recommended: Butyl rubber/nitrile gloves

Eye Protection

This product should not require eye protection if used in accordance with the label. **For emergency or other use:** Safety eyewear complying with an approved standard should be worn at all times when handling the product if a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. Recommended: Safety glasses with side shields

Skin Protection

This product should not require skin protection if used in accordance with the label. **For emergency or other use:** Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Wear protective clothing

Environmental Exposure

Steps should be taken to ensure that this product is not released accidentally into the environment. **For emergency or other use:** Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Aerosol
Density	~ 0.86 g/ml @ 20°C

9.2 Other Information

No information required.

10. STABILITY AND REACTIVITY

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10.1 Stability

This product is stable.

10.2 Materials to avoid

No specific data

10.3 Conditions to avoid

Extremes of temperature and direct sunlight

10.4 Hazardous decomposition

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Oral Toxicity	LD50 (rat)	>200 mg/kg **
Acute Inhalation Toxicity	LC50 (rat)	>5.0 mg/l **
Acute Dermal Toxicity	LD50 (rat)	>2000 mg/Kg **
Skin Irritation	This product may be irritating to the skin **	
Eye irritation	This product may be irritating to the eyes **	
Sensitization	This product is not expected to be a skin sensitizer **	
Other	Cutaneous sensitisations may occur, such as burning or stinging on the face and mucosae. However, these sensitisations cause no lesions and are of a transitory nature (max. 24 hours).	
	* - This product has not been tested	
	** - This product has not been tested, this data has been calculated	

12. ECOLOGICAL INFORMATION

12.1 Information on ecological effects

Bioaccumulation	Bioconcentration factor (BCF)	No Data
Toxicity to Fish	LC50 (Cyprinus carpio) Exposure time: 96 hours	0.145mg/l

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Toxicity to Daphnia	EC50 (Daphnia Magna) Exposure time: 24 hours	0.02mg/l
Toxicity to Algae	LC50 (Algae) Exposure time: 96 hours	No Data
Other	This product has not been tested. Data is based on Permethrin however, this product is classified as Very Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment	

13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

The generation of all waste should be avoided or minimised wherever possible. Recycling should also be considered before the disposal of any waste.

Contaminated packaging and waste product must be disposed of via a licensed waste disposal contractor. Any disposal practice must be in compliance with local and national laws and regulations.

Outer Packaging:	EWC Code	15 01 01	(Paper or cardboard)
Aerosol:	EWC Code	16 05 05	(Aerosol)
Unused or damaged or product	EWC Code	16 05 04*	(Contaminated Packaging)
Liquid Product	EWC Code	20 01 19*	(Pesticides)

14. TRANSPORT INFORMATION

14.1 ADR/RID/ADNR

UN No.	1950
ADR Class	2:1
Packaging Group	
Hazard Number	
Proper Shipping Name	AEROSOLS

14.2 IMDG

UN No.	1950
ADR Class	2:1
Packaging Group	
EmS	
Marine Pollutant	
Proper Shipping Name	AEROSOLS

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14.3 IATA

UN No.	1950
ADR Class	2:1
Packaging Group	
Proper Shipping Name	AEROSOLS

15. REGULATORY INFORMATION

Classification and labelling have been determined according to EU directives 67/548/EEC and 1994/EC (including amendments) and taken into account the intended product use.

15.1 Hazard Symbol(s)



Contains	Permethrin & Tetramethrin
V.O.C Content (EU)	VOC(%w/w)

15.2 Chemical Safety Assessment

16. OTHER INFORMATION

Revision Date	30/11/12
Revision	2

Risk Phrases In Full	
R10	Flammable
R12	Extremely flammable.
R20/22	Harmful by inhalation and if swallowed
R43	May cause sensitization by skin contact
R50/53	Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment
R51/53	Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.

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MSDS information: Use only in accordance with label instructions. The information contained in this data sheet does not constitute the user's own assessment of workplace risks as required by legislation. The information in this data sheet should be considered when undertaking a risk assessment under the COSHH regulations. 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 storage and transportation of the preparation. The information 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 STV International 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. This Material Safety data sheet is compiled using data submitted for raw materials and practical experience. This product is intended for amateur users only. This Safety Data Sheet is prepared in compliance with Directive 1999/45/EC and Annex II of the REACH regulation 1097 of 2006.

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