SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name:	Vazor® Wasp Nest Destroyer
Registration Number:	HSE 9817
Product form:	Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category:	Professional
Use of the substance/mixture:	For use only as an insecticide against Wasps.

1.2.2. Uses advised against

Use only for intended applications.

1.2. Details of the supplier of the safety data sheet

Address: Killgerm Chemicals Ltd, Wakefield Road, Ossett, WF5 9AJ
Tel: +44 (0)1924 268 450 Fax: +44 (0)1924 265 033 Email: technical@killgerm.com

1.2. Emergency telephone number

Medical professionals should contact Nation Poisons Information Service on 0344 892 0111.

Non-medical medical professionals should contact NHS Direct on 111.

SECTION 2: Hazards identification

2.1. Classification of the mixture according to Regulation (EC) No. 1272/2008 [CLP]

Aerosol	Category 1	H222, H229
Hazardous to the aquatic environment - Acute Hazard	Category 1	H400

Full text of H statements: see Section 16.

2.2. Label elements

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

Signal word: Danger

Hazard statements: H222 - Extremely flammable aerosol
H229 - Pressurised container: may burst if heated H318 - Causes serious eye damage.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary:
P101 - If medical advice is needed, have product container or label in hand.
P102 - Keep out of reach of children statements
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 - Do not spray on an open flame or other ignition source.
P251 - Do not pierce or burn, even after use.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves, protective clothing, eye protection, face protection.
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
P501 - Dispose of contents/container to a licensed hazardous waste disposal contractor or collection site

EUH-statements: EUH208 - Contains PERMETHRIN. May produce an allergic reaction.

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No 1272/2008 [CLP]
Hydrocarbon propellant	CAS Number: 68476-85-7 EC Number: 270-704-2	5 - 10	Flam. Gas 1 – H220 Press. Gas (Liq.) – H280
Hydrocarbons, C10, aromatics, <1% Naphthalene	REACH: 01-2119463583-34-XXXX EC Number: 918-811-1	1 - 5	STOT SE 3 – H336 Asp. Tox. 1 – H304 Aquatic Chronic 2 – H411
Hydrocarbons, C11-14, n-Alkanes, Isoalkanes, Cyclics <2% Aromatics	REACH: 01-2119456620-43-XXXX EC Number: 926-141-6	<1%	Asp. Tox. 1 – H304
Permethrin	CAS Number: 52645-53-1 EC Number: 258-067-9	<1%	Acute Tox. 4 – H302 Acute Tox. 4 – H332 Skins Sens. 1 – H317 Aquatic Acute 1 – H400 (M = 100) Aquatic Chronic 1 – H410 (M = 100)
Tetramethrin	CAS Number: 7696-12-0 EC Number: 231-711-6	<1%	Aquatic Acute 1 – H400 (M = 1) Aquatic Chronic 1 – H410 (M = 10)

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

Show this Safety Data Sheet to the medical personnel. If medical advice is needed, have product container or label at hand. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

First-aid measures after inhalation:	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
First-aid measures after skin contact:	Wash skin thoroughly with soap and water.
First-aid measures after eye contact:	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse. Get medical attention if any discomfort continues.
First-aid measures after ingestion:	Rinse mouth thoroughly with water. Do not induce vomiting. Get medical attention if any discomfort continues.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation:	Vapours may cause headache, fatigue, dizziness and nausea.
Ingestion:	Gastrointestinal symptoms, including upset stomach.
Skin contact:	Prolonged contact may cause dryness of the skin. The product contains a sensitising substance.
Eye contact:	May cause discomfort.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:	Foam. Dry powder. Carbon dioxide.
Unsuitable extinguishing media:	no available

5.2. Special hazards arising from the substance or mixture

Fire hazard:	Extremely flammable aerosol. Pressurised container: may burst if heated. Thermal decomposition or combustion products may include the following substances: Ammonia or amines. Carbon monoxide (CO). Carbon dioxide (CO_2). Nitrous gases (NO_x).

5.3. Advice for firefighters

Protection during firefighting:	Cool containers exposed to flames with water until well after the fire is out.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Do not touch or walk into spilled material. No smoking, sparks, flames or other sources of ignition near spillage. Avoid contact with skin, eyes and clothing. Avoid inhalation of vapours. Provide adequate ventilation. If aerosol cans are ruptured, care should be taken due to the rapid escape of the pressurised contents and propellant. Avoid contact with contaminated tools and objects. Take care as floors and other surfaces may become slippery. Do not handle broken packages without protective equipment. Wash thoroughly after dealing with a spillage.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Collect spillage with a shovel and broom, or similar and reuse, if possible. Collect and place in suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water. Don't discharge into drains or watercourses or onto the ground. Wash thoroughly after dealing with a spillage. For waste disposal, see Section 13.

6.4. Reference to other sections

For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

7. SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling: To avoid risks to human health and the environment, comply with the instructions for use. Use biocides safely. Always read the label and product information before use. Wear protective gloves. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only outdoors or in a well-ventilated area. Provide adequate ventilation. Keep container in a well-ventilated place. Avoid contact with skin, eyes and clothing. Avoid breathing vapour/spray. Use only outdoors or in a well-ventilated area. Do not expose to temperatures exceeding 50°C/122°F. Do not spray on an open flame or other ignition source. Keep out of the reach of children. Do not pierce or burn, even after use. Do not empty into drains. Do not eat, drink or smoke when using this product. Avoid contact with contaminated tools

and objects. Do not handle broken packages without protective equipment. Wash hands thoroughly after handling.
Wash promptly if skin becomes contaminated. Take off contaminated occupational hygiene. clothing. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store at temperatures between 4°C and 40°C. Do not expose to temperatures exceeding 50°C/122°F. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep out of the reach of children.

Storage class: Flammable compressed gas storage.

7.3. Specific end use(s)

Insecticide for use against Wasps only.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Component	**Long-term exposure limit (8-hour TWA)**		**Short-term exposure limit (15-minute) WEL**	
	ppm	mg/m^3	ppm	mg/m^3
Hydrocarbon propellant	1000	1750	1250	2180
Hydrocarbons, C10, aromatics, <1% naphthalene	70	500	10	53
Hydrocarbons, C11-14, n-ALKANES, ISOALKANES, CYCLICS <2% AROMATICS	-	1000	-	-
Tetramethrin	-	10 (dust only)	-	-

DNEL - Hydrocarbons, C10, aromatics, <1% naphthalene	
Industry - Dermal; Long term local effects	12.5 mg/kg/day
Industry - Inhalation; Long term local effects	151 mg/m^3
Consumer - Dermal; Long term local effects	7.5 mg/kg/day
Consumer - Inhalation; Long term local effects	32 mg/m^3
Consumer - Oral; Long term local effects	7.5 mg/kg/day

DNEL- PERMETHRIN (CAS: 52645-53-1)	
Oral	16.7 - 120 mg/kg

PNEC PERMETHRIN (CAS: 52645-53-1)	
Fresh water	0.00000047 mg/l
STP	0.00495 mg/l
Soil	>0.0876 mg/kg
Sediment (Freshwater)	0.01 mg/kg

8.2. Exposure controls

Appropriate engineering controls: Provide adequate ventilation.

Personal protective equipment:

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. The selected gloves should have a breakthrough time of at least 4 hours. To protect hands from chemicals, gloves should comply with European Standard EN374. The breakthrough time for any glove material may be different for different glove manufacturers. When used with mixtures, the protection time of gloves cannot be accurately estimated. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended. Protective gloves should have a minimum thickness of 0.15 mm. Glove thickness is not necessarily a good measure of glove resistance as the permeation rate will depend on the exact glove composition. Gloves made from the following material may provide suitable chemical protection: Nitrile rubber. Rubber (natural, latex). Neoprene. The choice of protective gloves depends upon the chemicals being handled, and the conditions of work and use. Repeated exposure to chemicals will degrade the ability of the glove to provide resistance to chemicals. Specific work environments and material handling practices may vary; therefore, safety procedures should be developed for each intended application.

Eye protection: Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Tight-fitting safety glasses. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Skin and body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved.

Respiratory protection: No specific recommendations. Provide adequate ventilation.

Environmental exposure controls: Avoid release to the environment. Refer to special instructions/safety data sheets.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Aerosol
Colour:	White/Off-White
Odour:	mild
Odour threshold:	not determined
pH:	n/a
Relative evaporation rate:	n/a
Melting point:	n/a
Freezing point:	n/a
Boiling point:	n/a
Flash point:	n/a
Auto-ignition temperature:	n/a
Decomposition temperature:	n/a
Flammability (solid, gas):	n/a
Vapour pressure:	n/a
Relative density:	n/a
Density:	n/a
Solubility:	Soluble in water
Log Pow:	n/a
Viscosity, kinematic:	n/a
Viscosity, dynamic:	n/a
Explosive properties:	n/a
Oxidising properties:	n/a
Explosive limits:	n/a

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity:

There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stable at normal ambient temperatures and when use as recommended.

10.3. Possibility of hazardous reactions

Not determined

10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

No specific material or group of materials is likely to react with the product to produce a hazardous situation.

10.6. Hazardous decomposition products

Thermal decomposition or combustion products may include the following substances: Ammonia or amines. Carbon monoxide (CO). Carbon Dioxide (CO_2). Nitrous gases (NO_x).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity:

Hydrocarbon propellant	
LC_{50} inhalation rat (mg/l)	21.6 mg/l
ATE (vapours)	21.6 mg/l

Hydrocarbons, C10, aromatics, <1% Naphthalene	
LD_{50} oral rat (mg/kg)	5 001 mg/kg
LC_{50} inhalation rat (mg/l)	4 688 mg/l
ATE inhalation (dust, inhalation, vapours mg/l)	4 688 mg/l

Tetramethrin (CAS 7696-12-0)	
LD_{50} oral rat (mg/kg)	2 000 mg/kg

Permethrin (CAS 52645-53-1)	
LD_{50} oral (rat)	554 mg/kg
LD_{50} dermal (rat)	2 000.1 mg/kg
LC_{50} inhalation; rat (dust/mist)	4.638 mg/l
ATE oral	554 mg/kg
ATE dermal	2 000.1 mg/kg
ATE inhalation (dusts/mists)	4.638 mg/l

Skin corrosion/irritation:	Prolonged contact may cause dryness of the skin. The product contains a sensitising substance.
Serious eye damage/irritation:	May cause discomfort
Respiratory or skin sensitisation:	Vapours may cause headache, fatigue, dizziness and nausea.
Germ cell mutagenicity:	Not classified.
Carcinogenicity:	Not classified.
Reproductive toxicity:	Not classified.
STOT-single exposure:	Not classified.
STOT-repeated exposure:	Not classified.
Aspiration hazard:	Not classified.

SECTION 12: Ecological information

12.1. Toxicity

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

Hydrocarbons, C10, aromatics, <1% Naphthalene	
LL_{50}, 96 hours; Oncorhynchus mykiss (Rainbow trout)	2-5 mg/l

Hydrocarbons, C11-14, n-Alkanes, Isoalkanes, Cyclics <2% aromatics	
LC_{50}, 96 hours; Oncorhynchus mykiss (Rainbow trout)	>1 000 mg/l
EC_{50}, 48 hours; Daphnia magna	>1 000 mg/l
EC_{50}, 48 hours; Daphnia magna	>250 ppm
IC_{50}, 72 hours; Algae	20 ppm

Permethrin (CAS 52645-53-1)	
LC_{50}, 96 hours; Poecilia reticulata (Guppy)	0.0089 mg/l
LC_{50}, 96 hours; Cyprinus carpio (Common carp)	0.145 mg/l
EC_{50}, 48 hours; Daphnia magna	0.02 mg/l
Acute aquatic toxicity	$LE(C)_{50}$ 0.001 < L(E)C50 ≤ 0.01
Chronic aquatic toxicity	NOEC 0.00001 < NOEC ≤ 0.0001
Degradability	Non-rapidly degradable
M Factor	Acute = 100, Chronic = 1 000

Tetramethrin (CAS 7696-12-0)	
LC_{50}, 96 hours; Brachydanio rerio (Zebra Fish)	0.033 mg/l
EC_{50}, 48 hours; Daphnia magna	0.47 mg/l
IC_{50}, 72 hours; Scenedesmus subspicatus	1.36 mg/l
Acute aquatic toxicity	$LE(C)_{50}$ 0.1 < L(E)C50 ≤ 1
Chronic aquatic toxicity	NOEC 0.001 < NOEC ≤ 0.01
Degradability	Non-rapidly degradable
M Factor	Acute = 1, Chronic = 10

12.2. Persistence and degradability

The product is expected to be biodegradable.

12.3. Bioaccumulative potential

The does not contain any substances expected to be bioaccumulating.

12.4. Mobility in soil

The product is soluble in water.

12.5. Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1 Waste treatment methods: Disposal of this product and empty packaging should always comply with requirements of environmental protection and waste disposal legislation and any local authority requirements. Please dispose through an authorised hazardous waste collection centre/collector.

SECTION 14: Transport information

In accordance with ADR/IMDG/IATA/AND/RID

14.1. UN number

UN-No.	1950

14.2. UN proper shipping name

Proper Shipping Name:	AEROSOLS

14.3. Transport hazard class(es).

ADR

Transport hazard class(es) (ADR):	2.1
Danger labels (ADR)	5F

IMDG

Transport hazard class(es) (IMDG):	2.1
Danger labels (IMDG)	-

ICAO

Transport hazard class(es) (ICAO):	2.1
Hazard labels (ICAO):	-

RID

Transport hazard class(es) (RID):	2.1
Danger labels (RID):	5F

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Dangerous for the environment:	Yes
Marine pollutant:	Yes

14.6. Special precautions for user

Tunnel restriction code (ADR):	D

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code.

Not applicable.

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

a. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
b. Commission Regulation (EU) No 453/2010 of 20 May 2010.
c. Commission Regulation (EU) No 2015/830 of 28 May 2015.
d. Workplace Exposure Limits EH40.

15.1.2. National regulations

Control of Substances Hazardous to Health Regulations 2002 (as amended).

15.2. Chemical safety assessment

No additional information available.

SECTION 16: Other information

Hazard statements in full

H220 Extremely flammable gas.
H222 Extremely flammable aerosol.
H229 Pressurised container: may burst if heated.
H280 Contains gas under pressure; may explode if heated.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H317 May cause an allergic skin reaction.
H332 Harmful if inhaled.
H336 May cause drowsiness or dizziness.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
EUH208 Contains PERMETHRIN. May produce an allergic reaction.

Classification abbreviations and acronyms

Acute Tox. = Acute toxicity
Aerosol = Aerosol
Aquatic Acute = Hazardous to the aquatic environment (acute)
Aquatic Chronic = Hazardous to the aquatic environment (chronic)
Asp. Tox. = Aspiration hazard
Press. Gas (Comp.) = Gas under pressure: Compressed gas
Skin Sens. = Skin sensitisation
STOT SE = Specific target organ toxicity-single exposure

Abbreviations and acronyms used In the safety data sheet

ATE: Acute Toxicity Estimate.
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS: Chemical Abstracts Service.

DNEL: Derived No Effect Level.
EC_{50}: 50% of maximal Effective Concentration.
IATA: International Air Transport Association.
ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.
IMDG: International Maritime Dangerous Goods.
LC_{50}: Lethal Concentration to 50 % of a test population.
LD_{50}: Lethal Dose to 50% of a test population (Median Lethal Dose).
NOEC: No Observed Effect Concentration.
PBT: Persistent, Bioaccumulative and Toxic substance.
PNEC: Predicted No Effect Concentration.
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.
UN: United Nations.
vPvB: Very Persistent and Very Bioaccumulative

This safety data sheet does not constitute a COSHH assessment.

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