1 Identification of the preparation and the supplying Company

1.1 Vazor DE Powder (aerosol)
1.2 Insecticidal biocide spray
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. National Poisons Information Service 0870 600 6266(for medical professional only) Non-professionals should use NHS 111. Killgerm Chemicals Ltd, 01924 268452 (Office hours)

2 Hazards identification

2.1. Classification of the substance or mixture
Eye Irritation category 2 H319-causes serious eye irritation
STOT SE category 3 H336- May cause drowsiness or dizziness
Aerosol category 1 H222-Extremely flammable aerosol, H229-Pressurised container: May burst if heated

2.2. Label elements

Danger

H319-Causes serious eye irritation
H336-May cause drowsiness or dizziness
H222-Extremely flammable aerosol
H229-Pressurised container: May burst if heated

P101: If medical advice is needed, have product container or label at handP102
P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking
P211: Do not spray on an open flame or other ignition source
P251: Pressurized container – Do not pierce or burn, even after use
P261: Avoid breathing dust/fume/gas/mist/vapours/spray
P271: Use only outdoors or in a well-ventilated area
P312: Call a POISON CENTER or doctor/physician if you feel unwell
P405: Store locked up
P410+412 P410: Protect from sunlight P412: Do not expose to temperatures exceeding 50
P501 Dispose of contents/container in accordance with national/international regulation

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
Propan-2-ol CAS No: 67-63-0	Flam Liq 2 Eye Irrit 2	35 %	R11 R36 R67	H225, H319, H336

	STOT SE 3			

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): Rinse the mouth thoroughly with water. Do not induce vomiting- give copious water to drink. Consult doctor immediately.

Inhalation: Remove person form danger area. Supply person with fresh air and consult doctor according to symptoms. If the person is unconscious, place in a stable side position and consult a doctor.

Skin contact: Remove polluted, soaked clothing .immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

Eye contact: Remove contact lenses. Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

4.2. Most important symptoms and effects, both acute and delayed: If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1 in certain cases, the symptoms of poisoning may only appear after an extended period/after several hours. The following may occur: coughing, reddening of the eyes, watering eyes, drowsiness, Narcotic effect, Unconsciousness

4.3. Indication of any immediate medical attention and special treatment needed …Elementary aid, Decontamination, Symptomatic treatment.

5 Fire-fighting measures

5.1. Extinguishing media: CO2, Foam, Dry extinguisher, Water jet spray. Unsuitable extinguishing media: High volume water jet.

5.2. Special hazards arising from the substance or mixture: In case of fire the following can develop: oxides of carbon, toxic gases, Danger of bursting (explosion) when heated. Explosive vapour/air mixture.

5.3. Advice for fire-fighters

In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply. According to size of fire. Full protection, if necessary. Cool container at risk with water. Dispose of contaminated extinction water according to official regulations.

6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures: Remove possible causes of ignition- do not smoke. Ensure sufficient supply of air, Avoid inhalation, and contact with eyes and skin.

6.2. Environmental precautions: Prevent entering drainage system. Prevent surface and ground-water infiltration, as well as ground penetration. If accidental entry into drainage system occurs, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up: If spray or gas escapes, ensure ample fresh air is available. Active substance: Soak up with absorbent material (e.g. Universal binding agent, sand, diatomaceous earth) and dispose of according to section 13.

6.4. Reference to other sections: For personal protective equipment see section 8 and for disposal instructions see section 13.

7 Handling and storage

7.1. Precautions for safe handling: Ensure good ventilation, avoid inhalation of vapours. Keep away from

sources of ignition-Do not smoke. Take measures against electrostatic charging, if appropriate. Do not use on hot surfaces. Avoid contact with eyes or skin. Eating, drinking, smoking, as well as food-storage, is prohibited in work-room. Observe direction on label and instructions for use. Use working methods according to operating instructions.

7.2. Conditions for safe storage, including any incompatibilities: Keep out of access to unauthorised individuals. Not to be stored in gangways or stair wells. Store product closed and only in original packing. Do not store with flammable or self-igniting materials. Observe special storage conditions. Observe special regulations for aerosols. Keep protected from direct sunlight and temperatures over 50°C, Store in a well-ventilated place. Store cool.

7.3. Specific end use(s) No information available at present.

8 Exposure controls and personal protection

8.1. Control parameters

Exposure limits for Propan-2-ol (Long term 8hr TWA 400ppm, 999mg/m3, Short term 15min 500ppm, 1250mg/m3) content is 35%

Exposure limits for Butane (Long term 8hr TWA 600ppm, 1450mg/m3, Short term 15min 750ppm, 1810mg/m3)

8.2. Exposure controls

Ensure good ventilation. This can be achieved by local suction or general air extraction. If this is insufficient to maintain the concentration under the WEL or AGW values, Suitable breathing protection should be worn. Applies only if maximum permissible exposure values are listed here.

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		
Gloves	Safety gloved made of butyl (EN 374)	Safety gloved made of butyl (EN 374)
Overall		
Goggles/ Face shield	Tight fitting protective goggles side protection (EN 166)	Tight fitting protective goggles side protection (EN 166)

9 Physical and chemical properties

9.1. General information

Appearance: fine White powder
Odour: Lemon
pH: approx. 7
Density: n/a
Flammability: Flammable
Boiling point/boiling range:
Vapour density: Not determined

Vapour pressure: Not determined
Melting point/freezing point: Not determined
Solubility in water: Insoluble
Solubility in other solvents:
Explosive properties: When using the development of explosive vapour/air mixture possible
Combustibility:
Oxidising properties: None
Evaporation rate: Not determined
Partition coefficient: Not determined
Decomposition temp: Not determined
Auto-ignition temp: Not determined

10 Stability and reactivity

10.1. Reactivity: This product has not been tested

10.2. Chemical stability: Stable with proper storage and handling.

10.3. Possibility of hazardous reactions: No dangerous reactions are known

10.4. Conditions to avoid: Heating, open flame, ignition sources, Pressure increase will result in danger of bursting.

10.5. Incompatible materials: Avoid contact with strong acids, alkalis and oxidizing agents.

10.6. Hazardous decomposition products: No decomposition when used as directed.

11 Toxicological information

11.1 Information on toxicological effects

(a) acute toxicity; no data available

(b) irritation; no data available

(c) corrosivity; no data available

(d) sensitisation; no data available

(e) repeated dose toxicity; no data available

(f) carcinogenicity; no data available

(g) mutagenicity; no data available

(h) toxicity for reproduction no data available

11.2 Other data: see section 2.3

12 Ecological information

12.1. Toxicity

Propan-2-ol							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Note
Toxicity to fish	LC50	96h	9640	mg/l	Pimeaphales promelas		
Toxicity to daphnia	EC50	48	13299	mg/l	Daphina magna		
Toxicity to algae		72h	>1000	mg/l	Desmodesmus subspicatus		
Bio cumulative Potential	Log Pow		0.05			OECD 107 (Partition Coefficient (n-octanol/water)Shake Flask Method)	

Persistence and degradability		21d	95	%		OECD 301 E (Ready Biodegradability- Modified OECD screening Test)	
Mobility in soil	Koc		1.1				Expert judgement
Toxicity to bacteria	EC50		>1000	mg/l	Activated sludge		
Toxicity to Bacteria	EC50		5175	mg/l	Pseudomonas putida	DIN 38412 T.8	
	BOD5		53	%			
	COD		96	%			References
	ThOD		2,4	g/g			

Butane							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Note
Bio cumulative Potential	Log Pow		2.98				A notable biological accumulation potential is not to be expected (LogPow 1-3)

12.2. Persistence and degradability: no available data for the product itself see above for available data on ingredients.

12.3. Bio accumulative potential: no available data for the product itself see above for available data on ingredients.

12.4. Mobility in soil: no available data for the product itself see above for available data on ingredients.

12.5. Results of PBT and vPvB assessment: no available data for the product itself see above for available data on ingredients.

12.6. Other adverse effects:

13 Disposal considerations

13.1. Waste treatment methods

Dispose of empty aerosol as hazardous waste use ewc code 16 05 04.
Dispose of unused product as hazardous waste use ewc code 20 01 19.
All hazardous waste should be disposed of at an appropriate licensed waste site or transfer station through a registered waste carrier.

14 Transport information

14.1. UN number: 1950

14.2. UN proper shipping name: n/a

14.3. Transport hazard class(es) : 2.1

14.4. Packing group: n/a

14.5. **Environmental hazards:** n/a

14.6. **Special precautions for user:** Persons employed in transporting dangerous goods must be trained. All persons involved in transporting must observe safety regulations. Precautions must be taken to prevent damage.

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:**
For classification and labelling see section 2. Additional data acc. To Art 69 (2), Regulation (EU) No 528/2012. (Biocide products): the identity of every active substance and its concentration in metric units: Propan-2-ol 35g/100g. The uses insecticide License No. of the biocide (Regulation (EU) No5285/2012/Directive 98/8/EC)

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/Risk information of ingredients
H225: Highly flammable liquid and vapour
H319: Causes serious eye irritation
H336: May cause drowsiness or dizziness

R11 Highly flammable
R36 Irritating to eyes
R67 Vapours may cause drowsiness and dizziness