



# VITAL GUARD BED BUG KILLER SPRAY

## Safety Data Sheet

According to REACH Regulation (EC) No 1907/2006, as retained and amended in UK law.

SDS Reference Number: 000044

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : VITAL GUARD BED BUG KILLER SPRAY  
Type of product : Biocidal products (e.g. Disinfectants, pest control)  
Product group : End product  
Other means of identification : Protector C Super 0.05 P

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

##### 1.2.1. Relevant identified uses

Intended for general public  
Main use category : Professional use, Consumer use  
Use of the substance/mixture : Insecticide

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

##### MYVITAL KEEP HEALTHY LIMITED

Company No: 17029826

Trade Mark: UK00004063470

United Kingdom

Email: [info@myvital.co.uk](mailto:info@myvital.co.uk)

Website: [www.myvitalguard.co.uk](http://www.myvitalguard.co.uk) | [www.myvitalkeephealthy.com](http://www.myvitalkeephealthy.com)

#### 1.4. Emergency telephone number

Emergency number : +44 (0)1420 80744 (M-F 09:00-17:00 GMT)

| Country/Area   | Organisation                                                                                        | Emergency number                                   |
|----------------|-----------------------------------------------------------------------------------------------------|----------------------------------------------------|
| United Kingdom | National Poisons Information Service (Birmingham Centre).<br>City Hospital.<br>Dudley Road B18 7QH. | 0344 892 0111<br>Only for healthcare professionals |
|                | NHS 111/NHS 24/NHS Direct.                                                                          | 111<br>0845 4647<br>or call a doctor               |

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to GB CLP (SI 2019:720 as amended)

Hazardous to the aquatic environment – Acute Hazard, Category 1 H400

Hazardous to the aquatic environment – Chronic Hazard, Category 1 H410

Full text of H- and EUH-statements: see section 16

##### Adverse physicochemical, human health and environmental effects

No additional information available

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### 2.2. Label elements

Labelling according to GB CLP (SI 2019:720 as amended)

Hazard pictograms (GB CLP)



GHS09

Signal word (GB CLP)

: Warning

Hazard statements (GB CLP)

: H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (GB CLP)

: P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P273 - Avoid release to the environment.

P391 - Collect spillage.

P501 - Dispose of contents/container in accordance with national regulations.

EUH-statements (GB CLP)

: EUH208 - Contains CHRYSANTHEMUM CINERARIAEFOLIUM EXTRACT IN PETROLEUM DISTILLATES - FROM OPEN AND MATURE FLOWERS OF TANACETUM CINERARIIFOLIUM OBTAINED WITH SUPERCRITICAL CARBONDIOXIDE (89997-63-7). May produce an allergic reaction.

### 2.3. Other hazards

Results of PBT and vPvB assessment

| Component                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Substance(s) not meeting the PBT criteria of UK REACH regulation, in accordance with Annex XIII  | CYPERMETHRIN CIS-TRANS +- 40-60 (52315-07-8), 2-(1-methyl-2-(4-phenoxyphenoxy)ethoxy)pyridine (95737-68-1), 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (112-34-5), PROPYLENE GLYCOL (57-55-6), CHRYSANTHEMUM CINERARIAEFOLIUM EXTRACT IN PETROLEUM DISTILLATES - FROM OPEN AND MATURE FLOWERS OF TANACETUM CINERARIIFOLIUM OBTAINED WITH SUPERCRITICAL CARBONDIOXIDE (89997-63-7) |
| Substance(s) not meeting the vPvB criteria of UK REACH regulation, in accordance with Annex XIII | CYPERMETHRIN CIS-TRANS +- 40-60 (52315-07-8), 2-(1-methyl-2-(4-phenoxyphenoxy)ethoxy)pyridine (95737-68-1), 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (112-34-5), PROPYLENE GLYCOL (57-55-6), CHRYSANTHEMUM CINERARIAEFOLIUM EXTRACT IN PETROLEUM DISTILLATES - FROM OPEN AND MATURE FLOWERS OF TANACETUM CINERARIIFOLIUM OBTAINED WITH SUPERCRITICAL CARBONDIOXIDE (89997-63-7) |

Results of Endocrine Disruptor assessment

| Component                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Substance(s) not considered as endocrine disrupting. They are not included in the list established in accordance with Article 59(1) of UK REACH for having endocrine disrupting properties, nor identified as having endocrine disrupting properties in accordance with the criteria set out in GB BPR and GB PPP | 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether(112-34-5), CYPERMETHRIN CIS-TRANS +- 40-60 (52315-07-8), CHRYSANTHEMUM CINERARIAEFOLIUM EXTRACT IN PETROLEUM DISTILLATES - FROM OPEN AND MATURE FLOWERS OF TANACETUM CINERARIIFOLIUM OBTAINED WITH SUPERCRITICAL CARBONDIOXIDE(89997-63-7), PROPYLENE GLYCOL(57-55-6), 2-(1-methyl-2-(4-phenoxyphenoxy)ethoxy)pyridine(95737-68-1) |

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

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### 3.2. Mixtures

| Name                                                                                                                                                                              | Product identifier                                                     | %   | Classification according to GB CLP (SI 2019:720 as amended)                                                                                                                                                                                                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether<br>substance with workplace exposure limit(s)                                                                        | CAS-No.: 112-34-5<br>EC-No.: 203-961-6<br>UK Index-No.: 603-096-00-8   | < 1 | Eye Irrit. 2, H319                                                                                                                                                                                                                                                   |
| CYPERMETHRIN CIS-TRANS +- 40-60                                                                                                                                                   | CAS-No.: 52315-07-8<br>EC-No.: 257-842-9<br>UK Index-No.: 607-421-00-4 | < 1 | Acute Tox. 4 (Oral), H302 (ATE=500 )<br>Acute Tox. 4 (Inhalation), H332 (ATE=3.3 )<br>STOT SE 3, H335<br>STOT RE 2, H373<br>Aquatic Acute 1, H400 (M=100000)<br>Aquatic Chronic 1, H410 (M=100000)                                                                   |
| CHRYSANTHEMUM CINERARIAEFOLIUM<br>EXTRACT IN PETROLEUM DISTILLATES - FROM<br>OPEN AND MATURE FLOWERS OF TANACETUM<br>CINERARIIFOLIUM OBTAINED WITH<br>SUPERCRITICAL CARBONDIOXIDE | CAS-No.: 89997-63-7<br>EC-No.: 289-699-3                               | < 1 | Acute Tox. 4 (Oral), H302 (ATE=730<br>mg/kg bodyweight)<br>Acute Tox. 4 (Inhalation), H332 (ATE=1.5<br>mg/l/4h)<br>Skin Sens. 1, H317<br>STOT SE 1, H370<br>STOT RE 2, H373<br>Asp. Tox. 1, H304<br>Aquatic Acute 1, H400 (M=100)<br>Aquatic Chronic 1, H410 (M=100) |
| PROPYLENE GLYCOL<br>substance with workplace exposure limit(s)                                                                                                                    | CAS-No.: 57-55-6<br>EC-No.: 200-338-0                                  | < 1 | Not classified                                                                                                                                                                                                                                                       |
| 2-(1-methyl-2-(4-phenoxyphenoxy)ethoxy)pyridine                                                                                                                                   | CAS-No.: 95737-68-1<br>EC-No.: 429-800-1<br>UK Index-No.: 613-303-00-3 | < 1 | Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410                                                                                                                                                                                                                     |

Full text of H- and EUH-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                       |                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| First-aid measures general            | : If you feel unwell, seek medical advice.                                                                                                                                                                                                                                                                      |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing. Loosen tight clothing such as a collar, tie, belt or waistband. If symptoms persist call a doctor. Get medical attention if symptoms are severe or persist after washing. Give oxygen or artificial respiration if necessary.                  |
| First-aid measures after skin contact | : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.                                                                                                                                                                              |
| First-aid measures after eye contact  | : Rinse eyes with water as a precaution. Remove contact lenses, if present and easy to do. Continue rinsing.                                                                                                                                                                                                    |
| First-aid measures after ingestion    | : Get immediate medical advice/attention. Rinse mouth out with water. Do NOT induce vomiting. Give a few small glasses of water or milk to drink. Do not give an unconscious person anything to drink. If unconscious, place in the recovery position and seek medical advice. Place under medical observation. |

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

|                                    |                                                                                                                                                       |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms/effects                   | : The severity of the symptoms described will vary dependent on the concentration and the length of exposure.                                         |
| Symptoms/effects after inhalation  | : Symptoms of overexposure may be narcotic effects. Depression of the central nervous system, headaches, dizziness, drowsiness, loss of coordination. |
| Symptoms/effects after eye contact | : May cause eye irritation.                                                                                                                           |
| Symptoms/effects after ingestion   | : Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis.                                                    |

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### 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   | : Dry chemical powder, Alcohol-resistant foam, Carbon dioxide (CO <sub>2</sub> ). |
| Unsuitable extinguishing media | : Do not use water jet.                                                           |

### 5.2. Special hazards arising from the substance or mixture

|                                                  |                                                   |
|--------------------------------------------------|---------------------------------------------------|
| Fire hazard                                      | : Heating may cause a fire or explosion.          |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. Corrosive vapours. |

### 5.3. Advice for firefighters

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Precautionary measures fire    | : Keep container tightly closed and away from heat, sparks and flame.                                                                                                                                                                                                                                                                                                                                                                     |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. Evacuate area. Cool containers with flooding quantities of water until well after fire is out. Avoid discharge to the environment. Control run-off water by containing and keeping it out of sewers and watercourses. Use self-contained breathing apparatus and chemically protective clothing. |

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

|                      |                                                                                                                                                                                                                              |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protective equipment | : Wear recommended personal protective equipment.                                                                                                                                                                            |
| Emergency procedures | : Ventilate spillage area. Avoid breathing fume, mist, spray, vapours. Keep upwind. No flames, no sparks. Eliminate all sources of ignition. See section 8 of the SDS for more information on personal protective equipment. |

#### 6.1.2. For emergency responders

|                      |                                                                                                                                                             |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

|                         |                                                                                                                                                  |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| For containment         | : Collect spillage. Cover spill with non combustible material, e.g.: sand, earth, vermiculite.                                                   |
| Methods for cleaning up | : Take up liquid spill into absorbent material. This material and its container must be disposed of in a safe way, and as per local legislation. |
| Other information       | : Dispose of materials or solid residues at an authorized site.                                                                                  |

### 6.4. Reference to other sections

For further information refer to section 13. For further information refer to section 8: "Exposure controls/personal protection".

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Precautions for safe handling | : Ensure good ventilation of the work station. Keep only in original container. Avoid breathing fume, mist, spray, vapours. Avoid contact with skin. Use personal protective equipment as required. Use only outdoors or in a well-ventilated area. Carefully comply with the instructions for use. Comply with the safety instructions. Do not re-use empty containers. Immediate medical attention and special treatment, if necessary. |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep in a cool, well-ventilated place away from heat. Store locked up. Product must only be kept in the original packaging.

Storage conditions : Store in a well-ventilated place. Keep cool. Keep only in original container. Store locked up. Always keep container in upright position. Keep container tightly closed.

Storage area : Store away from heat. Store in a well-ventilated place.

### 7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

| (112-34-5)                                    |                                                     |
|-----------------------------------------------|-----------------------------------------------------|
| United Kingdom - Occupational Exposure Limits |                                                     |
| WEL TWA (OEL TWA)                             | 67.5 mg/m <sup>3</sup>                              |
|                                               | 10 ppm                                              |
| WEL STEL (OEL STEL)                           | 101.2 mg/m <sup>3</sup>                             |
|                                               | 15 ppm                                              |
| (57-55-6)                                     |                                                     |
| United Kingdom - Occupational Exposure Limits |                                                     |
| Local name                                    | Propane-1,2-diol                                    |
| WEL TWA (OEL TWA)                             | 10 mg/m <sup>3</sup> particulates                   |
|                                               | 474 mg/m <sup>3</sup> total vapour and particulates |
|                                               | 150 ppm total vapour and particulates               |
| WEL STEL (OEL STEL)*                          | 30 mg/m <sup>3</sup>                                |
|                                               | 450 ppm                                             |
| Regulatory reference                          | EH40/2005 (Fourth edition, 2020). HSE               |
|                                               | *STEL value is calculated based on the TWA limit    |

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

##### Appropriate engineering controls:

Ensure good ventilation of the work station. Ensure the ventilation system is regularly maintained and tested.

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### 8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

**Eye protection:**

Safety glasses. Industrial and professional. Perform risk assessment prior to use.

#### 8.2.2.2. Skin protection

**Skin and body protection:**

Wear chemically protective gloves, lab coat or apron to prevent prolonged or repeated skin contact

**Hand protection:**

Protective gloves

#### 8.2.2.3. Respiratory protection

**Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment

#### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

**Environmental exposure controls:**

Avoid release to the environment.

**Consumer exposure controls:**

Keep receptacles tightly sealed. Conform to current legislation, regulations and orders.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                                                 |                 |
|-------------------------------------------------|-----------------|
| Physical state                                  | : Liquid        |
| Colour                                          | : Yellow.       |
| Odour                                           | : Solvent.      |
| Odour threshold                                 | : Not available |
| pH                                              | : Not available |
| pH solution concentration                       | : 100 %         |
| Melting point                                   | : Not available |
| Freezing point                                  | : Not available |
| Boiling point                                   | : Not available |
| Flash point                                     | : Not available |
| Flammability                                    | : Not available |
| Explosive limits                                | : Not available |
| Vapour pressure                                 | : Not available |
| Vapour pressure at 50°C                         | : Not available |
| Relative vapour density at 20°C                 | : Not available |
| Relative density                                | : Not available |
| Density                                         | : Not available |
| Solubility                                      | : Not available |
| Partition coefficient n-octanol/water (Log Kow) | : Not available |
| Auto-ignition temperature                       | : Not available |
| Decomposition temperature                       | : Not available |
| Viscosity, kinematic                            | : Not available |
| Explosive properties                            | : Not available |

### 9.2. Other information

|                          |                  |
|--------------------------|------------------|
| Particle characteristics | : Not applicable |
|--------------------------|------------------|

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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

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

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

|                             |                                                                                     |
|-----------------------------|-------------------------------------------------------------------------------------|
| Acute toxicity (oral)       | : Not classified (Based on available data, the classification criteria are not met) |
| Acute toxicity (dermal)     | : Not classified (Based on available data, the classification criteria are not met) |
| Acute toxicity (inhalation) | : Not classified (Based on available data, the classification criteria are not met) |

#### CYPERMETHRIN CIS-TRANS +- 40-60 (52315-07-8)

|                       |                  |
|-----------------------|------------------|
| LD50 oral rat         | 500 mg/kg bw/day |
| LD50 dermal rat       | > 2000 mg/kg     |
| LC50 Inhalation - Rat | 3.3 mg/l/4h      |

#### 2-(1-methyl-2-(4-phenoxyphenoxy)ethoxy)pyridine (95737-68-1)

|                                   |               |
|-----------------------------------|---------------|
| LD50 oral rat                     | > 5000 mg/kg  |
| LD50 dermal rat                   | > 2000 mg/kg  |
| LC50 Inhalation - Rat (Dust/Mist) | > 1.3 mg/l/4h |

#### 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (112-34-5)

|                    |                       |
|--------------------|-----------------------|
| LD50 oral rat      | 5660 mg/kg            |
| LD50 dermal rabbit | 2764 mg/kg bodyweight |

#### PROPYLENE GLYCOL (57-55-6)

|                       |              |
|-----------------------|--------------|
| LD50 oral rat         | > 2000 mg/kg |
| LD50 dermal rabbit    | > 2000 mg/kg |
| LC50 Inhalation - Rat | 634 mg/l/4h  |

#### CHRYSANthemum CINERARIAEFOLIUM EXTRACT IN PETROLEUM DISTILLATES - FROM OPEN AND MATURE FLOWERS OF TANACETUM CINERARIIFOLIUM OBTAINED WITH SUPERCRITICAL CARBONDIOXIDE (89997-63-7)

|               |                      |
|---------------|----------------------|
| LD50 oral rat | 730 mg/kg bodyweight |
|---------------|----------------------|

|                               |                                                                                     |
|-------------------------------|-------------------------------------------------------------------------------------|
| Skin corrosion/irritation     | : Not classified (Based on available data, the classification criteria are not met) |
| Serious eye damage/irritation | : Not classified (Based on available data, the classification criteria are not met) |

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|                                   |                                                                                     |
|-----------------------------------|-------------------------------------------------------------------------------------|
| Respiratory or skin sensitisation | : Not classified (Based on available data, the classification criteria are not met) |
| Germ cell mutagenicity            | : Not classified (Based on available data, the classification criteria are not met) |
| Carcinogenicity                   | : Not classified (Based on available data, the classification criteria are not met) |
| Reproductive toxicity             | : Not classified (Based on available data, the classification criteria are not met) |
| STOT-single exposure              | : Not classified (Based on available data, the classification criteria are not met) |

### CYPERMETHRIN CIS-TRANS +/- 40-60 (52315-07-8)

|                      |                                   |
|----------------------|-----------------------------------|
| STOT-single exposure | May cause respiratory irritation. |
|----------------------|-----------------------------------|

### CHRYSANthemum cinerariaefolium Extract in Petroleum Distillates - From Open and Mature Flowers of Tanacetum cinerariifolium Obtained with Supercritical Carbondioxide (89997-63-7)

|                      |                          |
|----------------------|--------------------------|
| STOT-single exposure | Causes damage to organs. |
|----------------------|--------------------------|

|                        |                                                                                     |
|------------------------|-------------------------------------------------------------------------------------|
| STOT-repeated exposure | : Not classified (Based on available data, the classification criteria are not met) |
|------------------------|-------------------------------------------------------------------------------------|

### CYPERMETHRIN CIS-TRANS +/- 40-60 (52315-07-8)

|                        |                                                                                     |
|------------------------|-------------------------------------------------------------------------------------|
| STOT-repeated exposure | May cause damage to organs (nervous system) through prolonged or repeated exposure. |
|------------------------|-------------------------------------------------------------------------------------|

### 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (112-34-5)

|                            |                          |
|----------------------------|--------------------------|
| NOAEL (oral, rat, 90 days) | 250 mg/kg bodyweight/day |
|----------------------------|--------------------------|

### CHRYSANthemum cinerariaefolium Extract in Petroleum Distillates - From Open and Mature Flowers of Tanacetum cinerariifolium Obtained with Supercritical Carbondioxide (89997-63-7)

|                        |                                                                    |
|------------------------|--------------------------------------------------------------------|
| STOT-repeated exposure | May cause damage to organs through prolonged or repeated exposure. |
|------------------------|--------------------------------------------------------------------|

|                   |                                                                                     |
|-------------------|-------------------------------------------------------------------------------------|
| Aspiration hazard | : Not classified (Based on available data, the classification criteria are not met) |
|-------------------|-------------------------------------------------------------------------------------|

### 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (112-34-5)

|                      |                          |
|----------------------|--------------------------|
| Viscosity, kinematic | 6.803 mm <sup>2</sup> /s |
|----------------------|--------------------------|

### CHRYSANthemum cinerariaefolium Extract in Petroleum Distillates - From Open and Mature Flowers of Tanacetum cinerariifolium Obtained with Supercritical Carbondioxide (89997-63-7)

|                      |                                |
|----------------------|--------------------------------|
| Viscosity, kinematic | 7.05 mm <sup>2</sup> /s @ 40°C |
|----------------------|--------------------------------|

## Other information

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

|                                                           |                                                         |
|-----------------------------------------------------------|---------------------------------------------------------|
| Ecology - general                                         | : Very toxic to aquatic life with long lasting effects. |
| Hazardous to the aquatic environment, short-term (acute)  | : Very toxic to aquatic life.                           |
| Hazardous to the aquatic environment, long-term (chronic) | : Very toxic to aquatic life with long lasting effects. |

### CYPERMETHRIN CIS-TRANS +/- 40-60 (52315-07-8)

|                        |                                                          |
|------------------------|----------------------------------------------------------|
| LC50 - Fish [1]        | 2.8 µg/l <i>Onchorhynchus mykiss</i>                     |
| EC50 - Crustacea [1]   | 4.71 µg/l <i>Daphnia Magna</i>                           |
| EC50 - Crustacea [2]   | 0.0053 µg/l <i>Hyalella ateca</i>                        |
| ErC50 algae            | > 33 µg/L (96 h, <i>Pseudokichneriella Subcapitata</i> ) |
| NOEC chronic crustacea | 0.05 µg/L 21 d, <i>Daphnia Magna</i>                     |

### 2-(1-methyl-2-(4-phenoxyphenoxy)ethoxy)pyridine (95737-68-1)

|                 |                                                   |
|-----------------|---------------------------------------------------|
| LC50 - Fish [1] | > 0.27 mg/l <i>Lepomis macrochirus</i> (Bluegill) |
|-----------------|---------------------------------------------------|

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|                                                                                                                                                                                           |                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| <b>2-(1-methyl-2-(4-phenoxyphenoxy)ethoxy)pyridine (95737-68-1)</b>                                                                                                                       |                                                 |
| EC50 - Other aquatic organisms [1]                                                                                                                                                        | 0.4 mg/l Daphnia magna                          |
| EC50 72h - Algae [1]                                                                                                                                                                      | 0.15 mg/l Selenastrum capricornutum             |
| <b>2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (112-34-5)</b>                                                                                                            |                                                 |
| LC50 - Fish [1]                                                                                                                                                                           | 1300 mg/l Lepomis macrochirus                   |
| EC50 - Crustacea [1]                                                                                                                                                                      | > 100 mg/l Daphnia magna                        |
| EC50 96h - Algae [1]                                                                                                                                                                      | > 100 mg/l Desmodesmus subscapitus              |
| <b>PROPYLENE GLYCOL (57-55-6)</b>                                                                                                                                                         |                                                 |
| LC50 - Fish [1]                                                                                                                                                                           | 40613 mg/l                                      |
| EC50 - Crustacea [1]                                                                                                                                                                      | 340 mg/l Daphnia magna                          |
| EC50 96h - Algae [1]                                                                                                                                                                      | 19000 mg/l                                      |
| <b>CHRYSANTHEMUM CINERARIAEFOLIUM EXTRACT IN PETROLEUM DISTILLATES - FROM OPEN AND MATURE FLOWERS OF TANACETUM CINERARIIFOLIUM OBTAINED WITH SUPERCRITICAL CARBONDIOXIDE (89997-63-7)</b> |                                                 |
| LC50 - Fish [1]                                                                                                                                                                           | 0.0052 mg/l Oncorhynchus mykiss (Rainbow trout) |
| EC50 - Crustacea [1]                                                                                                                                                                      | 0.12 mg/l Daphnia magna                         |

### 12.2. Persistence and degradability

|                                                                                                                                                                                           |                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| <b>VITAL GUARD BED BUG KILLER SPRAY</b>                                                                                                                                                   |                        |
| Persistence and degradability                                                                                                                                                             | Not rapidly degradable |
| <b>CYPERMETHRIN CIS-TRANS +- 40-60 (52315-07-8)</b>                                                                                                                                       |                        |
| Persistence and degradability                                                                                                                                                             | Not rapidly degradable |
| <b>2-(1-methyl-2-(4-phenoxyphenoxy)ethoxy)pyridine (95737-68-1)</b>                                                                                                                       |                        |
| Persistence and degradability                                                                                                                                                             | Not biodegradable.     |
| <b>2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (112-34-5)</b>                                                                                                            |                        |
| Persistence and degradability                                                                                                                                                             | Not rapidly degradable |
| <b>PROPYLENE GLYCOL (57-55-6)</b>                                                                                                                                                         |                        |
| Persistence and degradability                                                                                                                                                             | Readily biodegradable. |
| <b>CHRYSANTHEMUM CINERARIAEFOLIUM EXTRACT IN PETROLEUM DISTILLATES - FROM OPEN AND MATURE FLOWERS OF TANACETUM CINERARIIFOLIUM OBTAINED WITH SUPERCRITICAL CARBONDIOXIDE (89997-63-7)</b> |                        |
| Persistence and degradability                                                                                                                                                             | Not rapidly degradable |

### 12.3. Bioaccumulative potential

|                                                                                |                                  |
|--------------------------------------------------------------------------------|----------------------------------|
| <b>CYPERMETHRIN CIS-TRANS +- 40-60 (52315-07-8)</b>                            |                                  |
| Partition coefficient n-octanol/water (Log Pow)                                | 5.3 – 5.6 (25 °C)                |
| <b>2-(1-methyl-2-(4-phenoxyphenoxy)ethoxy)pyridine (95737-68-1)</b>            |                                  |
| Partition coefficient n-octanol/water (Log Pow)                                | 4.86 @pH7                        |
| Bioaccumulative potential                                                      | Slightly or not bioaccumulative. |
| <b>2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (112-34-5)</b> |                                  |
| Partition coefficient n-octanol/water (Log Pow)                                | 0.56                             |

# VITAL GUARD BED BUG KILLER SPRAY

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### PROPYLENE GLYCOL (57-55-6)

|                           |                                |
|---------------------------|--------------------------------|
| Bioaccumulative potential | Low bioaccumulation potential. |
|---------------------------|--------------------------------|

### CHRYSANTHEMUM CINERARIAEFOLIUM EXTRACT IN PETROLEUM DISTILLATES - FROM OPEN AND MATURE FLOWERS OF TANACETUM CINERARIIFOLIUM OBTAINED WITH SUPERCRITICAL CARBONDIOXIDE (89997-63-7)

|                                                 |     |
|-------------------------------------------------|-----|
| Partition coefficient n-octanol/water (Log Pow) | > 4 |
|-------------------------------------------------|-----|

#### 12.4. Mobility in soil

### PROPYLENE GLYCOL (57-55-6)

|                |                   |
|----------------|-------------------|
| Ecology - soil | Soluble in water. |
|----------------|-------------------|

#### 12.5. Results of PBT and vPvB assessment

##### Component

|                                                                                                                                                                                    |                                                                                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CYPERMETHRIN CIS-TRANS +- 40-60 (52315-07-8)                                                                                                                                       | This substance does not meet the PBT criteria of UK REACH regulation, annex XIII<br>This substance does not meet the vPvB criteria of UK REACH regulation, annex XIII |
| 2-(1-methyl-2-(4-phenoxyphenoxy)ethoxy)pyridine (95737-68-1)                                                                                                                       | This substance does not meet the PBT criteria of UK REACH regulation, annex XIII<br>This substance does not meet the vPvB criteria of UK REACH regulation, annex XIII |
| 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether (112-34-5)                                                                                                            | This substance does not meet the PBT criteria of UK REACH regulation, annex XIII<br>This substance does not meet the vPvB criteria of UK REACH regulation, annex XIII |
| PROPYLENE GLYCOL (57-55-6)                                                                                                                                                         | This substance does not meet the PBT criteria of UK REACH regulation, annex XIII<br>This substance does not meet the vPvB criteria of UK REACH regulation, annex XIII |
| CHRYSANTHEMUM CINERARIAEFOLIUM EXTRACT IN PETROLEUM DISTILLATES - FROM OPEN AND MATURE FLOWERS OF TANACETUM CINERARIIFOLIUM OBTAINED WITH SUPERCRITICAL CARBONDIOXIDE (89997-63-7) | This substance does not meet the PBT criteria of UK REACH regulation, annex XIII<br>This substance does not meet the vPvB criteria of UK REACH regulation, annex XIII |

#### 12.6. Other adverse effects

Ozone : Not classified (Based on available data, the classification criteria are not met)

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

No additional information available

## SECTION 14: Transport information

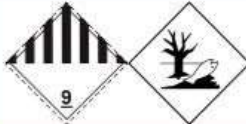
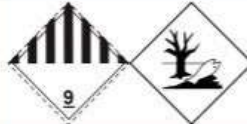
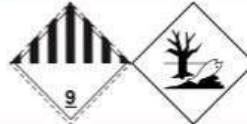
In accordance with ADR / IMDG / IATA / ADN / RID

| ADR                                                                                                                                                                                                                                                                                                                                                           | IMDG                                  | IATA                                   | ADN                                   | RID                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------------------------|---------------------------------------|---------------------------------------|
| Special provision(s) applied<br>: 375                                                                                                                                                                                                                                                                                                                         | Special provision(s) applied<br>: 969 | Special provision(s) applied<br>: A197 | Special provision(s) applied<br>: 375 | Special provision(s) applied<br>: 375 |
| These substances when carried in single or combination packagings containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions of the transport regulations provided the packagings meet the general provisions. |                                       |                                        |                                       |                                       |
| <b>14.1. UN number</b>                                                                                                                                                                                                                                                                                                                                        |                                       |                                        |                                       |                                       |
| UN 3082                                                                                                                                                                                                                                                                                                                                                       | UN 3082                               | UN 3082                                | UN 3082                               | UN 3082                               |

# VITAL GUARD BED BUG KILLER SPRAY

## Safety Data Sheet

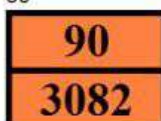
According to REACH Regulation (EC) No 1907/2006, as retained and amended in UK law.

| ADR                                                                                           | IMDG                                                                                                       | IATA                                                                                     | ADN                                                                                      | RID                                                                                      |
|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| <b>14.2. UN proper shipping name</b>                                                          |                                                                                                            |                                                                                          |                                                                                          |                                                                                          |
| ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CYPERMETHRIN 40/60)                      | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CYPERMETHRIN 40/60)                                   | Environmentally hazardous substance, liquid, n.o.s. (CYPERMETHRIN 40/60)                 | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CYPERMETHRIN 40/60)                 | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CYPERMETHRIN 40/60)                 |
| <b>Transport document description</b>                                                         |                                                                                                            |                                                                                          |                                                                                          |                                                                                          |
| UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CYPERMETHRIN 40/60), 9, III, (-) | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CYPERMETHRIN 40/60), 9, III, MARINE POLLUTANT | UN 3082 Environmentally hazardous substance, liquid, n.o.s. (CYPERMETHRIN 40/60), 9, III | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CYPERMETHRIN 40/60), 9, III | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CYPERMETHRIN 40/60), 9, III |
| <b>14.3. Transport hazard class(es)</b>                                                       |                                                                                                            |                                                                                          |                                                                                          |                                                                                          |
| 9                                                                                             | 9                                                                                                          | 9                                                                                        | 9                                                                                        | 9                                                                                        |
|             |                          |        |       |      |
| <b>14.4. Packing group</b>                                                                    |                                                                                                            |                                                                                          |                                                                                          |                                                                                          |
| III                                                                                           | III                                                                                                        | III                                                                                      | III                                                                                      | III                                                                                      |
| <b>14.5. Environmental hazards</b>                                                            |                                                                                                            |                                                                                          |                                                                                          |                                                                                          |
| Dangerous for the environment: Yes                                                            | Dangerous for the environment: Yes<br>Marine pollutant: Yes                                                | Dangerous for the environment: Yes                                                       | Dangerous for the environment: Yes                                                       | Dangerous for the environment: Yes                                                       |
| No supplementary information available                                                        |                                                                                                            |                                                                                          |                                                                                          |                                                                                          |

## 14.6. Special precautions for user

### Overland transport

|                                                                         |                           |
|-------------------------------------------------------------------------|---------------------------|
| Classification code (ADR)                                               | : M6                      |
| Special provisions (ADR)                                                | : 274, 335, 375, 601      |
| Limited quantities (ADR)                                                | : 5I                      |
| Excepted quantities (ADR)                                               | : E1                      |
| Packing instructions (ADR)                                              | : P001, IBC03, LP01, R001 |
| Special packing provisions (ADR)                                        | : PP1                     |
| Mixed packing provisions (ADR)                                          | : MP19                    |
| Portable tank and bulk container instructions (ADR)                     | : T4                      |
| Portable tank and bulk container special provisions (ADR)               | : TP1, TP29               |
| Tank code (ADR)                                                         | : LGBV                    |
| Vehicle for tank carriage                                               | : AT                      |
| Transport category (ADR)                                                | : 3                       |
| Special provisions for carriage - Packages (ADR)                        | : V12                     |
| Special provisions for carriage - Loading, unloading and handling (ADR) | : CV13                    |
| Hazard identification number (Kemler No.)                               | : 90                      |
| Orange plates                                                           | :                         |



|                               |      |
|-------------------------------|------|
| Tunnel restriction code (ADR) | : -  |
| EAC code                      | : 3Z |

# VITAL GUARD BED BUG KILLER SPRAY

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### Transport by sea

|                                   |                 |
|-----------------------------------|-----------------|
| Special provisions (IMDG)         | : 274, 335, 969 |
| Limited quantities (IMDG)         | : 5 L           |
| Excepted quantities (IMDG)        | : E1            |
| Packing instructions (IMDG)       | : LP01, P001    |
| Special packing provisions (IMDG) | : PP1           |
| IBC packing instructions (IMDG)   | : IBC03         |
| Tank instructions (IMDG)          | : T4            |
| Tank special provisions (IMDG)    | : TP1, TP29     |
| EmS-No. (Fire)                    | : F-A           |
| EmS-No. (Spillage)                | : S-F           |
| Stowage category (IMDG)           | : A             |

### Air transport

|                                              |                         |
|----------------------------------------------|-------------------------|
| PCA Excepted quantities (IATA)               | : E1                    |
| PCA Limited quantities (IATA)                | : Y964                  |
| PCA limited quantity max net quantity (IATA) | : 30kgG                 |
| PCA packing instructions (IATA)              | : 964                   |
| PCA max net quantity (IATA)                  | : 450L                  |
| CAO packing instructions (IATA)              | : 964                   |
| CAO max net quantity (IATA)                  | : 450L                  |
| Special provisions (IATA)                    | : A97, A158, A197, A215 |
| ERG code (IATA)                              | : 9L                    |

### Inland waterway transport

|                                   |                      |
|-----------------------------------|----------------------|
| Classification code (ADN)         | : M6                 |
| Special provisions (ADN)          | : 274, 335, 375, 601 |
| Limited quantities (ADN)          | : 5 L                |
| Excepted quantities (ADN)         | : E1                 |
| Carriage permitted (ADN)          | : T                  |
| Equipment required (ADN)          | : PP                 |
| Number of blue cones/lights (ADN) | : 0                  |

### Rail transport

|                                                                         |                           |
|-------------------------------------------------------------------------|---------------------------|
| Classification code (RID)                                               | : M6                      |
| Special provisions (RID)                                                | : 274, 335, 375, 601      |
| Limited quantities (RID)                                                | : 5L                      |
| Excepted quantities (RID)                                               | : E1                      |
| Packing instructions (RID)                                              | : P001, IBC03, LP01, R001 |
| Special packing provisions (RID)                                        | : PP1                     |
| Mixed packing provisions (RID)                                          | : MP19                    |
| Portable tank and bulk container instructions (RID)                     | : T4                      |
| Portable tank and bulk container special provisions (RID)               | : TP1, TP29               |
| Tank codes for RID tanks (RID)                                          | : LGBV                    |
| Transport category (RID)                                                | : 3                       |
| Special provisions for carriage – Packages (RID)                        | : W12                     |
| Special provisions for carriage - Loading, unloading and handling (RID) | : CW13, CW31              |
| Colis express (express parcels) (RID)                                   | : CE8                     |
| Hazard identification number (RID)                                      | : 90                      |

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

Not applicable

# VITAL GUARD BED BUG KILLER SPRAY

## Safety Data Sheet

According to REACH Regulation (EC) No 1907/2006, as retained and amended in UK law.

### SECTION 15: Regulatory information

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

##### 15.1.1. National regulations

###### UK REACH Annex XVII (Restriction List)

This product contains no substance(s) listed on UK REACH Annex XVII (Restriction List) equal to or above the level of SDS disclosure

###### UK REACH Annex XIV (Authorisation List)

This product contains no substance(s) listed on UK REACH Annex XIV (Authorisation List) equal to or above the 0.1% level of disclosure

###### UK REACH Candidate List (SVHC)

This product contains no substance(s) listed on the UK REACH Candidate List (SVHC).

###### Biocide Regulation (528/2012)

Contains substance(s) listed on the Biocidal Products list (Regulation EU 528/2012 concerning the making available on the market and use of biocidal products)

Type of product (Biocide) :

Authorisation number :

###### GB PIC Regulation (Prior Informed Consent)

This product contains no substance(s) listed on the GB PIC List equal to or above the level of SDS disclosure

###### POP Regulation (Persistent Organic Pollutants)

This product contains no substance(s) listed on the GB POP List equal to or above the level of SDS disclosure

###### Ozone Regulation (S.I. No. 168 of 2015)

This product contains no substance(s) listed on the GB Ozone Depletion List equal to or above the level of SDS disclosure

###### Control of Poisons and Explosives Precursors Act

This product contains no substance(s) listed on the Control of Poisons and Explosives Precursors Regulations equal to or above the level of SDS disclosure

###### Drug Precursors Regulation (EC 273/2004)

This product contains no substance(s) listed on the GB Drug Precursors List equal to or above the level of SDS disclosure

##### 15.1.2. Other Information

#### 15.2. Chemical safety assessment

No additional information available

### SECTION 16: Other information

#### Indication of changes (UK)

| Section | Changed item                      | Comments |
|---------|-----------------------------------|----------|
| 2.2     | Precautionary statements (GB CLP) | Modified |

#### Abbreviations and acronyms:

|      |                                                                                                 |
|------|-------------------------------------------------------------------------------------------------|
| ADN  | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR  | European Agreement concerning the International Carriage of Dangerous Goods by Road             |
| ATE  | Acute Toxicity Estimate                                                                         |
| BCF  | Bioconcentration factor                                                                         |
| BLV  | Biological limit value                                                                          |
| BOD  | Biochemical oxygen demand (BOD)                                                                 |
| COD  | Chemical oxygen demand (COD)                                                                    |
| DMEL | Derived Minimal Effect level                                                                    |

# VITAL GUARD BED BUG KILLER SPRAY

## Safety Data Sheet

According to REACH Regulation (EC) No 1907/2006, as retained and amended in UK law.

| Indication of changes (UK) |                                                                              |          |
|----------------------------|------------------------------------------------------------------------------|----------|
| Section                    | Changed item                                                                 | Comments |
| DNEL                       | Derived-No Effect Level                                                      |          |
| EC-No.                     | European Community number                                                    |          |
| EC50                       | Median effective concentration                                               |          |
| EN                         | European Standard                                                            |          |
| IARC                       | International Agency for Research on Cancer                                  |          |
| IATA                       | International Air Transport Association                                      |          |
| IMDG                       | International Maritime Dangerous Goods                                       |          |
| LC50                       | Median lethal concentration                                                  |          |
| LD50                       | Median lethal dose                                                           |          |
| LOAEL                      | Lowest Observed Adverse Effect Level                                         |          |
| NOAEC                      | No-Observed Adverse Effect Concentration                                     |          |
| NOAEL                      | No-Observed Adverse Effect Level                                             |          |
| NOEC                       | No-Observed Effect Concentration                                             |          |
| OECD                       | Organisation for Economic Co-operation and Development                       |          |
| OEL                        | Occupational Exposure Limit                                                  |          |
| PBT                        | Persistent Bioaccumulative Toxic                                             |          |
| PNEC                       | Predicted No-Effect Concentration                                            |          |
| RID                        | Regulations concerning the International Carriage of Dangerous Goods by Rail |          |
| SDS                        | Safety Data Sheet                                                            |          |
| STP                        | Sewage treatment plant                                                       |          |
| ThOD                       | Theoretical oxygen demand (ThOD)                                             |          |
| TLM                        | Median Tolerance Limit                                                       |          |
| VOC                        | Volatile Organic Compounds                                                   |          |
| CAS-No.                    | Chemical Abstracts Service number                                            |          |
| N.O.S.                     | Not Otherwise Specified                                                      |          |
| vPvB                       | Very Persistent and Very Bioaccumulative                                     |          |
| ED                         | Endocrine disruptor                                                          |          |

| Full text of H- and EUH-statements: |                                                                 |
|-------------------------------------|-----------------------------------------------------------------|
| Acute Tox. 2 (Dermal)               | Acute toxicity (dermal), Category 2                             |
| Acute Tox. 2 (Inhalation)           | Acute toxicity (inhal.), Category 2                             |
| Acute Tox. 3 (Oral)                 | Acute toxicity (oral), Category 3                               |
| Acute Tox. 4 (Dermal)               | Acute toxicity (dermal), Category 4                             |
| Acute Tox. 4 (Inhalation)           | Acute toxicity (inhal.), Category 4                             |
| Acute Tox. 4 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4                |
| Acute Tox. 4 (Oral)                 | Acute toxicity (oral), Category 4                               |
| Aquatic Acute 1                     | Hazardous to the aquatic environment – Acute Hazard, Category 1 |

# VITAL GUARD BED BUG KILLER SPRAY

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According to REACH Regulation (EC) No 1907/2006, as retained and amended in UK law.

| Full text of H- and EUH-statements: |                                                                                                                                                                                                                                |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Aquatic Chronic 1                   | Hazardous to the aquatic environment – Chronic Hazard, Category 1                                                                                                                                                              |
| Eye Dam. 1                          | Serious eye damage/eye irritation, Category 1                                                                                                                                                                                  |
| Eye Irrit. 2                        | Serious eye damage/eye irritation, Category 2                                                                                                                                                                                  |
| Skin Corr. 1C                       | Skin corrosion/irritation, Category 1, Sub-Category 1C                                                                                                                                                                         |
| Skin Irrit. 2                       | Skin corrosion/irritation, Category 2                                                                                                                                                                                          |
| Skin Sens. 1                        | Skin sensitisation, Category 1                                                                                                                                                                                                 |
| Skin Sens. 1A                       | Skin sensitisation, category 1A                                                                                                                                                                                                |
| STOT RE 2                           | Specific target organ toxicity – Repeated exposure, Category 2                                                                                                                                                                 |
| STOT SE 1                           | Specific target organ toxicity – single exposure, Category 1                                                                                                                                                                   |
| STOT SE 3                           | Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation                                                                                                                                     |
| H301                                | Toxic if swallowed.                                                                                                                                                                                                            |
| H302                                | Harmful if swallowed.                                                                                                                                                                                                          |
| H310                                | Fatal in contact with skin.                                                                                                                                                                                                    |
| H312                                | Harmful in contact with skin.                                                                                                                                                                                                  |
| H314                                | Causes severe skin burns and eye damage.                                                                                                                                                                                       |
| H315                                | Causes skin irritation.                                                                                                                                                                                                        |
| H317                                | May cause an allergic skin reaction.                                                                                                                                                                                           |
| H318                                | Causes serious eye damage.                                                                                                                                                                                                     |
| H319                                | Causes serious eye irritation.                                                                                                                                                                                                 |
| H330                                | Fatal if inhaled.                                                                                                                                                                                                              |
| H332                                | Harmful if inhaled.                                                                                                                                                                                                            |
| H335                                | May cause respiratory irritation.                                                                                                                                                                                              |
| H370                                | Causes damage to organs.                                                                                                                                                                                                       |
| H373                                | May cause damage to organs through prolonged or repeated exposure.                                                                                                                                                             |
| H400                                | Very toxic to aquatic life.                                                                                                                                                                                                    |
| H410                                | Very toxic to aquatic life with long lasting effects.                                                                                                                                                                          |
| EUH071                              | Corrosive to the respiratory tract.                                                                                                                                                                                            |
| EUH208                              | Contains CHRYSANTHEMUM CINERARIAEFOLIUM EXTRACT IN PETROLEUM DISTILLATES - FROM OPEN AND MATURE FLOWERS OF TANACETUM CINERARIIFOLIUM OBTAINED WITH SUPERCRITICAL CARBONDIOXIDE (89997-63-7). May produce an allergic reaction. |

| Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]: |      |                    |
|---------------------------------------------------------------------------------------------------------------------------|------|--------------------|
| Aquatic Acute 1                                                                                                           | H400 | Calculation method |
| Aquatic Chronic 1                                                                                                         | H410 | Calculation method |

Safety Data Sheet (SDS), UK

The information contained in this Safety Data Sheet is believed to be true and correct, as of the issue date. The accuracy and completeness of this information and any recommendations, or suggestions are made without warranty or guarantee. Since the conditions of use are beyond the control of our company, it is the responsibility of the user to determine the conditions of safe use for this product.