

SAFETY DATA SHEET Vulcan PRFU

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

1.1. Product identifier

Product name Vulcan PRFU

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

Identified uses Insecticide.

Uses advised against No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier PelGar International Ltd

Unit 13

Newman Lane

Alton Hampshire GU34 2QR United Kingdom

Telephone: +44(0)1420 80744 E-mail: garry@pelgar.co.uk

1.4. Emergency telephone number

Emergency telephone +44(0)1420 80744

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Skin Irrit. 2 - H315 STOT SE 3 - H336 Asp. Tox. 1 - H304

Environmental hazards Aquatic Chronic 2 - H411

2.2. Label elements

Pictogram







Signal word Danger

Hazard statements H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

EUH208 Contains PERMETHRIN. May produce an allergic reaction.

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Precautionary statements P264 Wash contaminated skin thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P331 Do NOT induce vomiting.

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

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P262 Do not get in eyes, on skin, or on clothing.

P260 Do not breathe vapour/ spray.

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.

P270 Do not eat, drink or smoke when using this product.

Contains Distillates(petroleum) hydrotreated

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Distillates(petroleum) hydrotreated 60-100%

Classification

Skin Irrit. 2 - H315 STOT SE 3 - H336 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411

PIPERONYL BUTOXIDE ENDURA <1%

CAS number: 51-03-6 EC number: 200-076-7

M factor (Acute) = 1 M factor (Chronic) = 1

Classification

Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

PERMETHRIN <1%

Classification

Acute Tox. 4 - H302 Acute Tox. 4 - H332 Skin Sens. 1 - H317 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

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TETRAMETHRIN TECHNICAL <1%

Classification

General information

Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

If material enters lungs, signs and symptoms may include coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath, and/or fever. The onset of respiratory symptoms may be delayed for several hours after exposure. Continued inhalation may result in unconsciousness and death. Skin irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blisters. Breathing of high vapour concentrations may cause central nervous system (CNS) depression resulting in dizziness, light-headedness, headache, nausea and loss of coordination. Show this Safety Data Sheet to the medical personnel.

Inhalation

Aspiration may cause respiratory irritation and may cause lung damage if swallowed. Remove patient from exposure and give oxygen. Maintain a clear airway and adequate ventilation. Apply other measures as indicated by the patient's clinical condition. In case of unconsciousness place patient in recovery position and get emergency medical advice. Exposure can cause numbness, tingling and weakness in extremities. Obtain medical advice immediately. The chemical, physical and toxicological properties have not been thoroughly investigated.

Ingestion

Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Never give anything by mouth to an unconscious person. Place unconscious person on their side in the recovery position and ensure breathing can take place. Keep affected person under observation. Get medical attention. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention immediately.

Skin contact

The most common health effect associated with petroleum distillate skin exposure is irritation leading to dermatitis. Skin exposure may result in dermatitis through the extraction of endogenous skin lipids. Immediately wash with water and soap and rinse thoroughly. If irritation persists obtain medical attention. Contaminated clothing should be washed and dried before re-use.

Eye contact

Rinse with water. Get medical attention if any discomfort continues.

Protection of first aiders

First aid personnel should wear appropriate protective equipment during any rescue.

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

General information

The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation

A single exposure may cause the following adverse effects: Headache. Nausea, vomiting. Central nervous system depression. Drowsiness, dizziness, disorientation, vertigo. Narcotic effect.

Ingestion

May cause irritation. Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

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Skin contact Redness. Irritating to skin.

Eye contact No specific symptoms known. May be slightly irritating to eyes.

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

Notes for the doctorTreat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry

powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards Containers can burst violently or explode when heated, due to excessive pressure build-up.

Hazardous combustion

products

Thermal decomposition or combustion products may include the following substances:

Harmful gases or vapours.

5.3. Advice for firefighters

Protective actions during firefighting

Avoid breathing fire gases or vapours. Evacuate area. Keep upwind to avoid inhalation of gases, vapours, fumes and smoke. Ventilate closed spaces before entering them. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

Special protective equipment for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of t

Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Avoid inhalation of dust and vapours. Use suitable respiratory protection if ventilation is inadequate.

6.2. Environmental precautions

Environmental precautions Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the

aquatic environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Small Spillages: Collect spillage. Large Spillages: Absorb spillage with non-combustible, absorbent material. The contaminated absorbent may pose the same hazard as the spilled material. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dangerous for the environment. Do not empty into drains. For waste disposal, see Section 13.

6.4. Reference to other sections

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Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Read and follow manuf

Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimise spills. Keep container tightly sealed when not in use. Avoid the formation of mists. Avoid discharge to the aquatic environment. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.

Advice on general occupational hygiene

Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Keep only in the original container. Keep container tightly closed, in a cool, well ventilated

place. Keep containers upright. Protect containers from damage. Keep locked up and out of

the reach of children.

Storage class Miscellaneous hazardous material storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

8.2. Exposure controls

Protective equipment







Appropriate engineering controls

Provide adequate general and local exhaust ventilation. Ensure the ventilation system is regularly maintained and tested. Good general ventilation should be adequate to control worker exposure to airborne contaminants. Observe any occupational exposure limits for the product or ingredients.

Personal protection

Body protection must be chosen depending on activity and possible exposure, for example apron, protecting boots, chemical-protection suit.

Eye/face protection

Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses.

Hand protection

Wear protective gloves. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with European Standard EN374. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.

Other skin and body protection

Wear appropriate clothing to prevent repeated or prolonged skin contact.

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Hygiene measures Wash hands thoroughly after handling. Wash at the end of each work shift and before eating,

smoking and using the toilet. Do not eat, drink or smoke when using this product.

Respiratory protection Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked.

Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with European Standard EN14387. Full face mask respirators with replaceable filter cartridges should comply with European Standard EN136. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European

Standard EN140.

Environmental exposure

controls

Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance Liquid.

Colour Yellow.

Odour Aromatic hydrocarbons.

Odour threshold No information available.

pH No information available.

Melting point No information available.

Initial boiling point and range 200 - 250 Deg C

Flash point >70 Deg C

Evaporation rate

No information available.

Evaporation factor

No information available.

Flammability (solid, gas)

No information available.

Upper/lower flammability or

explosive limits

0.6 - 8% (V)

Other flammability No information available.

Vapour pressure 0.03 kPa at 20 Deg C

Vapour density >1

Relative density 0.8

Bulk density No information available.

Solubility(ies) Immiscible in water @ 20 Deg C

Partition coefficient No information available.

Auto-ignition temperature >200 Deg C

Decomposition TemperatureNo information available.ViscosityNo information available.Explosive propertiesNo information available.

Oxidising properties Not oxidising.

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9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

ReactivityThere are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stable at normal ambient temperatures and when used as recommended. Stable under the

prescribed storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous

reactions

No potentially hazardous reactions known.

10.4. Conditions to avoid

Conditions to avoid There are no known conditions that are likely to result in a hazardous situation.

10.5. Incompatible materials

Materials to avoid

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

hazardous situation.

10.6. Hazardous decomposition products

Hazardous decomposition

products

Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects Low Oral, Dermal and Inhalation toxicity for Petroleum distillate. Category 4 Oral, Dermal and

Inhalation toxicity for the Permethrin. Thus as the product mixture contains very low quantities

of Permethrin it is not considered toxic.

Acute toxicity - oral

Notes (oral LD₅₀) Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD₅₀) Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC50) Based on available data the classification criteria are not met.

Skin corrosion/irritation

Skin corrosion/irritation This product is a skin irritant. Prolonged or repeated exposure may cause irritation and

dermatitis

Animal data Irritating.

Serious eye damage/irritation

Serious eye damage/irritation Based on available data the classification criteria are not met.

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisationBased on available data the classification criteria are not met.

Germ cell mutagenicity

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Genotoxicity - in vitroBased on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity Based on available data the classification criteria are not met.

IARC carcinogenicityNone of the ingredients are listed or exempt.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Reproductive toxicity -

development

Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure STOT SE 3 - H336 May cause drowsiness or dizziness.

Target organs Central nervous system

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

Asp. Tox. 1 - H304 May be fatal if swallowed and enters airways. Pneumonia may be the

result if vomited material containing solvents reaches the lungs.

General information The severity of the symptoms described will vary dependent on the concentration and the

length of exposure.

Inhalation A single exposure may cause the following adverse effects: Headache. Nausea, vomiting.

Central nervous system depression. Drowsiness, disziness, disorientation, vertigo. Narcotic

effect.

Ingestion May cause irritation. Aspiration hazard if swallowed. Entry into the lungs following ingestion or

vomiting may cause chemical pneumonitis.

Skin contact Redness. Irritating to skin.

Eye contact May irritate eyes.

Route of entry Ingestion Inhalation Skin and/or eye contact

Target organs Central nervous system

Toxicity of ingredients

SECTION 12: Ecological Information

Ecotoxicity Films formed on water may affect oxygen transfer and damage organisms. Toxic to fish and

Bees.

12.1. Toxicity

Toxicity Aquatic Chronic 2 - H411 Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

Persistence and degradability There are no data on the degradability of this product. Expected to be inherently

biodegradable. The volatile constituents will oxidize rapidly by photochemical reactions in air.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

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Partition coefficient No information available.

12.4. Mobility in soil

Mobility No data available. Floats on water. Contains volatile constituents. Evaporates within a day

from water or soil surfaces. Large volumes may penetrate soil and could contaminate

groundwater.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment

The substance does not fulfil all screening criteria for persistence, bioaccumulation and

toxicity and hence is not considered to be PBT or vPvB.

12.6. Other adverse effects

Other adverse effects None known.

Toxicity of ingredients

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Do not allow product to reach sewage system. Do not dispose into the environment, in drains

or in water courses. Disposal should be in accordance with applicable regional, national, and local laws and regulations. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be

considered.

Disposal methodsDispose of in accordance with applicable regional, national, and local laws and regulations.

Dispose of Contaminated packaging as unused product unless fully cleaned.

Environmentally Hazardous Substance, Liquid, N.O.S. (contains Petroleum Distillates,

Waste class Waste disposal key number from EWC is 20 01 19 (Pesticides)

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 3082

UN No. (IMDG) 3082

UN No. (ICAO) 3082

UN No. (ADN) 3082

14.2. UN proper shipping name

Proper shipping name (ADR/RID)

Permethrin and Tetramethrin)

remedini and redamedini

Proper shipping name (IMDG) Environmentally Hazardous Substance, Liquid, N.O.S. (contains Petroleum Distillates,

Permethrin and Tetramethrin)

Proper shipping name (ICAO) Environmentally Hazardous Substance, Liquid, N.O.S. (contains Petroleum Distillates,

Permethrin and Tetramethrin)

Proper shipping name (ADN) Environmentally Hazardous Substance, Liquid, N.O.S. (contains Petroleum Distillates,

Permethrin and Tetramethrin)

14.3. Transport hazard class(es)

ADR/RID class 9

ADR/RID classification code M6

ADR/RID label 9

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IMDG class 9
ICAO class/division 9

ADN class 9

Transport labels



14.4. Packing group

ADR/RID packing group III

IMDG packing group III

ADN packing group III

ICAO packing group III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



14.6. Special precautions for user

EmS F-A, S-F

ADR transport category 3

Emergency Action Code •3Z

Hazard Identification Number 90

(ADR/RID)

Tunnel restriction code (E)

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

Transport in bulk according to Not applicable. **Annex II of MARPOL 73/78**

Autoritorium de 1011

and the IBC Code

SECTION 15: Regulatory information

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

National regulations Health and Safety at Work etc. Act 1974 (as amended).

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009

No. 716).

The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment

Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].

EH40/2005 Workplace exposure limits.

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EU legislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18

December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of

Chemicals (REACH) (as amended).

Commission Regulation (EU) No 453/2010 of 20 May 2010.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as

amended).

Dangerous Preparations Directive 1999/45/EC. Dangerous Substances Directive 67/548/EEC.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Classification procedures according to Regulation (EC)

Asp. Tox. 1 - H304: STOT SE 3 - H336: Skin Irrit. 2 - H315: : Calculation method. Aquatic

Chronic 2 - H411: : Calculation method.

1272/2008

Training advice Only trained personnel should use this material.

Revision date 16/12/2016

Revision 9

Supersedes date 16/12/2016

SDS number 20524

Hazard statements in full H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H332 Harmful if inhaled.

H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects.

EUH208 Contains PERMETHRIN. May produce an allergic reaction.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.