



## SAFETY DATA SHEET VULCAN P5 DP

According to Regulation (EC) No 1907/2006, Annex II, as amended. Commission Regulation (EU) No 2015/830 of 28 May 2015.

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

#### 1.1. Product identifier

**Product name** VULCAN P5 DP

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

**Identified uses** Biocidal product

**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 (Monday - Friday 9.00am - 5pm)

### SECTION 2: Hazards identification

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

##### Classification (EC 1272/2008)

**Physical hazards** Not Classified

**Health hazards** Not Classified

**Environmental hazards** Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

#### 2.2. Label elements

##### Pictogram



**Signal word** Warning

**Hazard statements** H410 Very toxic to aquatic life with long lasting effects.  
EUH208 Contains PERMETHRIN. May produce an allergic reaction.

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<b>Precautionary statements</b>	P273 Avoid release to the environment.
	P391 Collect spillage.
	P501 Dispose of contents/ container in accordance with national regulations.
	P102 Keep out of reach of children.
	P103 Read label before use.
	P260 Do not breathe dust.
	P270 Do not eat, drink or smoke when using this product.
P262 Do not get in eyes, on skin, or on clothing.	

### 2.3. Other hazards

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>PERMETHRIN</b>	<b>&lt;1%</b>
CAS number: 52645-53-1	EC number: 258-067-9
M factor (Acute) = 1000	M factor (Chronic) = 1000

#### Classification

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

## DIISOBUTYL NAPHTHALENE SULPHONATE, SODIUM SALT

**<1%**

CAS number: 27213-90-7                      EC number: 248-326-4

#### Classification

Skin Irrit. 2 - H315  
 Eye Irrit. 2 - H319  
 Aquatic Chronic 3 - H412

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>General information</b>	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
<b>Inhalation</b>	Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Do not induce vomiting. Never give anything by mouth to an unconscious person. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.
<b>Skin contact</b>	Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.
<b>Eye contact</b>	If dust has entered the eyes, proceed as follows. Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.

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

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

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media** The product is non-combustible. Extinguish with the following media: Water spray, fog or mist. Carbon dioxide (CO<sub>2</sub>). Dry chemicals, sand, dolomite etc.

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

### 5.3. Advice for firefighters

**Protective actions during firefighting** Avoid breathing fire gases or vapours.

**Special protective equipment for firefighters** Use protective equipment appropriate for surrounding materials.

## 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 this safety data sheet. Avoid inhalation of dust.

### 6.2. Environmental precautions

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

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

**Methods for cleaning up** Collect powder using special dust vacuum cleaner with particle filter or carefully sweep into suitable waste disposal containers and seal securely. Avoid generation and spreading of dust.

### 6.4. Reference to other sections

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Avoid handling which leads to dust formation. Persons susceptible to allergic reactions should not handle this product.

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

**Storage precautions** Store in tightly-closed, original container in a dry and cool place. Keep separate from food, feedstuffs, fertilisers and other sensitive material.

**Storage class** Miscellaneous hazardous material storage.

### 7.3. Specific end use(s)

## SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

#### TALC

Long-term exposure limit (8-hour TWA): 1 mg/m<sup>3</sup>

#### SIPERNAT 50 S

TLVs ACGI 10mg/m<sup>3</sup> UK EH40/95 3mg/m<sup>3</sup> respirable dust, 8 h oes, 6mg/m<sup>3</sup> total dust oes.

#### CHINA CLAY

Inorganic dust WEL 4mg/m<sup>3</sup> resp. dust TWA 8 hrs.

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### 8.2. Exposure controls

<b>Appropriate engineering controls</b>	Use mechanical ventilation if there is a risk of handling causing formation of airborne dust.
<b>Eye/face protection</b>	Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.
<b>Hand protection</b>	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.
<b>Respiratory protection</b>	Ensure adequate ventilation. Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m <sup>3</sup> . Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible.
<b>Environmental exposure controls</b>	Do not release to the environment.

### SECTION 9: Physical and Chemical Properties

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

<b>Appearance</b>	Dusty powder.
<b>Colour</b>	Grey.
<b>Odour</b>	No characteristic odour.
<b>Odour threshold</b>	No information available.
<b>pH</b>	No information available.
<b>Melting point</b>	No information available.
<b>Initial boiling point and range</b>	No information available.
<b>Flash point</b>	No information available.
<b>Evaporation rate</b>	No information available.
<b>Evaporation factor</b>	No information available.
<b>Flammability (solid, gas)</b>	No information available.
<b>Upper/lower flammability or explosive limits</b>	No information available.
<b>Other flammability</b>	No information available.
<b>Vapour pressure</b>	No information available.
<b>Vapour density</b>	No information available.
<b>Relative density</b>	No information available.
<b>Bulk density</b>	No information available.
<b>Solubility(ies)</b>	Insoluble in water.
<b>Partition coefficient</b>	No information available.
<b>Auto-ignition temperature</b>	No information available.
<b>Decomposition Temperature</b>	No information available.
<b>Viscosity</b>	No information available.

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**Explosive properties** No information available.

**Oxidising properties** Not known.

### 9.2. Other information

#### SECTION 10: Stability and reactivity

##### 10.1. Reactivity

##### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures and when used as recommended.

##### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** Will not polymerise.

##### 10.4. Conditions to avoid

**Conditions to avoid** Avoid contact with water.

##### 10.5. Incompatible materials

##### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Does not decompose when used and stored as recommended.

#### SECTION 11: Toxicological information

##### 11.1. Information on toxicological effects

###### Skin corrosion/irritation

**Animal data** Based on available data the classification criteria are not met.

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

###### Germ cell mutagenicity

**Genotoxicity - in vitro** Based on available data the classification criteria are not met.

###### Carcinogenicity

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

###### IARC carcinogenicity

None 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** Not classified as a specific target organ toxicant after a single exposure.

###### Specific target organ toxicity - repeated exposure

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

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### Aspiration hazard

**Aspiration hazard** Not relevant. Solid.

### **General information**

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

### **Inhalation**

No specific symptoms known.

### **Ingestion**

No specific symptoms known.

### **Skin contact**

Prolonged contact may cause dryness of the skin.

### **Eye contact**

No specific symptoms known.

### **Route of entry**

Ingestion Inhalation Skin and/or eye contact

### **Target organs**

No specific target organs known.

### **Toxicity of ingredients**

Permethrin:

LD50 Oral (Rat) 383 mg/kg

LC50 Inhalation (Rat) 485 mg/M3

LD50 Dermal (Rabbit) >2000 mg/kg

## SECTION 12: Ecological Information

### **Ecotoxicity**

The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

### 12.1. Toxicity

#### **Toxicity**

Very toxic to aquatic organisms.

### 12.2. Persistence and degradability

### 12.3. Bioaccumulative potential

#### **Partition coefficient**

No information available.

### 12.4. Mobility in soil

### 12.5. Results of PBT and vPvB assessment

### 12.6. Other adverse effects

#### **Toxicity of ingredients**

Permethrin:

LC50 (Fathead Minow) 96Hr 0.016 mg/L

EC50 Daphnia Magna (Water Flea) 48Hr 0.32 µg/L

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### **Disposal methods**

This material and its container must be disposed of in a safe way. Dispose of in accordance with applicable regional, national, and local laws and regulations.

Dispose of Contaminated packaging as unused product unless fully cleaned.

#### **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)**

3077

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UN No. (IMDG)	3077
UN No. (ICAO)	3077
UN No. (ADN)	3077

### 14.2. UN proper shipping name

Proper shipping name (ADR/RID)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS PERMETHRIN)
Proper shipping name (IMDG)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS PERMETHRIN)
Proper shipping name (ICAO)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS PERMETHRIN)
Proper shipping name (ADN)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS PERMETHRIN)

### 14.3. Transport hazard class(es)

ADR/RID class	9
ADR/RID classification code	M7
ADR/RID label	9
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	2Z
Hazard Identification Number (ADR/RID)	90

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Tunnel restriction code (E)

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

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

### SECTION 15: Regulatory information

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

<b>National regulations</b>	Health and Safety at Work etc. Act 1974 (as amended). 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.
<b>EU legislation</b>	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 2015/830 of 28 May 2015. 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).

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

#### Inventories

##### **EU - EINECS/ELINCS**

None of the ingredients are listed or exempt.

### SECTION 16: Other information

<b>Abbreviations and acronyms used in the safety data sheet</b>	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways. RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail. IATA: International Air Transport Association. ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air. IMDG: International Maritime Dangerous Goods. CAS: Chemical Abstracts Service. ATE: Acute Toxicity Estimate. LC <sub>50</sub> : Lethal Concentration to 50 % of a test population. LD <sub>50</sub> : Lethal Dose to 50% of a test population (Median Lethal Dose). EC <sub>50</sub> : 50% of maximal Effective Concentration. PBT: Persistent, Bioaccumulative and Toxic substance. vPvB: Very Persistent and Very Bioaccumulative.
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<b>Classification abbreviations and acronyms</b>	Aquatic Acute = Hazardous to the aquatic environment (acute) Aquatic Chronic = Hazardous to the aquatic environment (chronic)
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<b>General information</b>	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.
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<b>Classification procedures according to Regulation (EC) 1272/2008</b>	Aquatic Acute 1 - H400: Aquatic Chronic 1 - H410: : Calculation method.
<b>Revision comments</b>	Risks recalculated to ensure data is up to date
<b>Revision date</b>	09/10/2017
<b>Revision</b>	2
<b>Supersedes date</b>	26/01/2017
<b>SDS number</b>	20799
<b>Hazard statements in full</b>	H302 Harmful if swallowed. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H332 Harmful if inhaled. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H412 Harmful 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.