



## SAFETY DATA SHEET VULCAN C

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 C

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

### SECTION 2: Hazards identification

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

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

Physical hazards                      Flam. Liq. 3 - H226

Health hazards                        Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT SE 3 - H335, H336 STOT RE 2 - H373 Asp. Tox. 1 - H304

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

#### 2.2. Label elements

##### Pictogram



Signal word

Danger

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<b>Hazard statements</b>	<p>H226 Flammable liquid and vapour.  H304 May be fatal if swallowed and enters airways.  H315 Causes skin irritation.  H318 Causes serious eye damage.  H335 May cause respiratory irritation.  H336 May cause drowsiness or dizziness.  H373 May cause damage to organs through prolonged or repeated exposure.  H410 Very toxic to aquatic life with long lasting effects.</p>
<b>Precautionary statements</b>	<p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  P260 Do not breathe vapour/ spray.  P271 Use only outdoors or in a well-ventilated area.  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.  P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  P312 Call a POISON CENTER/ doctor if you feel unwell.  P332+P313 If skin irritation occurs: Get medical advice/ attention.  P362+P364 Take off contaminated clothing and wash it before reuse.  P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.  P391 Collect spillage.  P403+P235 Store in a well-ventilated place. Keep cool.  P405 Store locked up.  P501 Dispose of contents/ container in accordance with national regulations.  P337+P313 If eye irritation persists: Get medical advice/ attention.</p>
<b>Contains</b>	<p>Caromax 18, CYPERMETHRIN, 1,2,4-TRIMETHYLBENZENE, DODECYLBENZENE SULPHONATE CALCIUM SALT, BUTANOL-norm</p>

### 2.3. Other hazards

Not known

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>Caromax 18</b> CAS number: —	<b>60-100%</b>
<b>Classification</b> Flam. Liq. 3 - H226 STOT SE 3 - H335, H336 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411	

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<b>CYPERMETHRIN</b>	<b>10-30%</b>
CAS number: 52315-07-8	EC number: 257-842-9
M factor (Acute) = 1000	M factor (Chronic) = 1000
<b>Classification</b> Acute Tox. 4 - H302 Acute Tox. 4 - H332 STOT SE 3 - H335 STOT RE 2 - H373 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	
<b>1,2,4-TRIMETHYLBENZENE</b>	<b>5-10%</b>
CAS number: 95-63-6	EC number: 202-436-9
<b>Classification</b> Flam. Liq. 3 - H226 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT SE 3 - H335 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411	
<b>DODECYLBENZENE SULPHONATE CALCIUM SALT</b>	<b>1-5%</b>
CAS number: 90194-26-6	EC number: 290-635-1
<b>Classification</b> Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Dam. 1 - H318	
<b>BUTANOL-norm</b>	<b>1-5%</b>
CAS number: 71-36-3	EC number: 200-751-6
<b>Classification</b> Flam. Liq. 3 - H226 Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT SE 3 - H335, H336	

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

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

Move affected person to fresh air at once. Get medical attention if any discomfort continues.

##### Inhalation

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention.

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

#### 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** Extinguish with the following media: Foam. Dry chemicals, sand, dolomite etc.

**Unsuitable extinguishing media** High volume water jet.

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

**Specific hazards** The product is flammable.

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

#### 5.3. Advice for firefighters

**Protective actions during firefighting** Avoid breathing fire gases or vapours. Cool containers exposed to flames with water until well after the fire is out. Control run-off water by containing and keeping it out of sewers and watercourses.

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

### **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.

#### 6.2. Environmental precautions

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

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

**Methods for cleaning up** Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Absorb in vermiculite, dry sand or earth and place into containers. Collect spillage for reclamation or disposal in sealed containers via a licensed waste contractor. Avoid the spillage or runoff entering drains, sewers or watercourses. Avoid the spillage or runoff entering drains, sewers or watercourses. Inform authorities if large amounts are involved.

#### 6.4. Reference to other sections

### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

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**Usage precautions** Provide adequate ventilation. Avoid inhalation of vapours. Use approved respirator if air contamination is above an acceptable level. Avoid spilling. Avoid inhalation of vapours. Avoid contact with skin and eyes.

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

**Storage precautions** Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep only in the original container.

### 7.3. Specific end use(s)

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

**Usage description** Pesticide

## SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### **BUTANOL-norm**

Long-term exposure limit (8-hour TWA): WEL

Short-term exposure limit (15-minute): WEL 50 ppm(Sk) 154 mg/m<sup>3</sup>(Sk)

WEL = Workplace Exposure Limit

### 8.2. Exposure controls

#### **Protective equipment**



#### **Appropriate engineering controls**

Provide adequate general and local exhaust ventilation.

#### **Personal protection**

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

#### **Eye/face protection**

The following protection should be worn: Chemical splash goggles or face shield.

#### **Hand protection**

Use protective gloves.

#### **Other skin and body protection**

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

#### **Hygiene measures**

Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly with soap and water if skin becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

#### **Respiratory protection**

Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible.

## SECTION 9: Physical and Chemical Properties

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

**Appearance** Liquid.

**Colour** Brown.

**Odour** Aromatic.

**Odour threshold** No information available.

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<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>	45.1 DegC (c.c.)
<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>	0.93 @ @ 20°C
<b>Bulk density</b>	No information available.
<b>Solubility(ies)</b>	Forms an emulsion with water. Soluble in the following materials: Organic solvents.
<b>Auto-ignition temperature</b>	No information available.
<b>Decomposition Temperature</b>	No information available.
<b>Viscosity</b>	No information available.
<b>Explosive properties</b>	No information available.
<b>Explosive under the influence of a flame</b>	No information available.
<b>Oxidising properties</b>	Not determined.

### 9.2. Other information

#### SECTION 10: Stability and reactivity

##### 10.1. Reactivity

**Reactivity** Not known

##### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures.

##### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** Not known. No potentially hazardous reactions known.

##### 10.4. Conditions to avoid

**Conditions to avoid** Avoid contact with the following materials: Acids. Oxidising agents.

##### 10.5. Incompatible materials

**Materials to avoid** Flammable/combustible materials.

##### 10.6. Hazardous decomposition products

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**Hazardous decomposition products**      Fire creates: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)**                      Based on available data the classification criteria are not met.

**ATE oral (mg/kg)**                      3,267.97

##### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)**                      Based on available data the classification criteria are not met.

##### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)**                      Based on available data the classification criteria are not met.

**ATE inhalation (gases ppm)**              22,500.0

**ATE inhalation (vapours mg/l)**      55.0

**ATE inhalation (dusts/mists mg/l)**      6.52

##### Skin corrosion/irritation

**Animal data**                              Irritating.

##### Serious eye damage/irritation

**Serious eye damage/irritation**      Eye Dam. 1 - H318 Causes serious eye damage.

##### 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**                      STOT SE 3 - H335, H336 May cause respiratory irritation. May cause drowsiness or dizziness.

**Target organs**                              Respiratory system, lungs Central nervous system

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

**STOT - repeated exposure**              STOT RE 2 - H373 May cause damage to organs through prolonged or repeated exposure.

##### Aspiration hazard

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<b>Aspiration hazard</b>	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.
<b>General information</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Inhalation</b>	A single exposure may cause the following adverse effects: Irritation of nose, throat and airway. Difficulty in breathing. Coughing. Vapours may cause headache, fatigue, dizziness and nausea. Central nervous system depression.
<b>Ingestion</b>	May cause irritation. Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.
<b>Skin contact</b>	Redness. Irritating to skin.
<b>Eye contact</b>	Causes serious eye damage. Symptoms following overexposure may include the following: Pain. Profuse watering of the eyes. Redness.
<b>Acute and chronic health hazards</b>	This chemical can be hazardous when inhaled and/or touched. Inhalation May cause respiratory system irritation. SKIN CONTACT. Product has a defatting effect on skin. May cause allergic contact eczema. Prolonged or repeated exposure may cause severe irritation. EYE CONTACT. May cause severe eye irritation. INGESTION. Is absorbed through the stomach and intestine. May cause stomach pain or vomiting.
<b>Route of entry</b>	Ingestion Inhalation Skin and/or eye contact
<b>Target organs</b>	Central nervous system Respiratory system, lungs

### Toxicity of ingredients

## SECTION 12: Ecological Information

**Ecotoxicity** Dangerous for the environment if discharged into watercourses.

### 12.1. Toxicity

**Toxicity** Aquatic Acute 1 - H400 Very toxic to aquatic life. Aquatic Chronic 1 - H410 Very toxic to aquatic life with long lasting effects.

### 12.2. Persistence and degradability

**Persistence and degradability** The degradability of the product is not known.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

### 12.4. Mobility in soil

**Mobility** No data available.

### 12.5. Results of PBT and vPvB assessment

### 12.6. Other adverse effects

**Other adverse effects** None known.

### Toxicity of ingredients

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**General information** This material and its container must be disposed of in a safe way.



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**Disposal methods** 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)	1993
UN No. (IMDG)	1993
UN No. (ICAO)	1993
UN No. (ADN)	1993

#### 14.2. UN proper shipping name

**Proper shipping name (ADR/RID)** FLAMMABLE LIQUID, N.O.S. (contains Caromax 18)

**Proper shipping name (IMDG)** FLAMMABLE LIQUID, N.O.S. (CONTAINS Caromax 18, CYPERMETHRIN, 1,2,4-TRIMETHYLBENZENE)

**Proper shipping name (ICAO)** FLAMMABLE LIQUID, N.O.S. (contains Caromax 18)

**Proper shipping name (ADN)** FLAMMABLE LIQUID, N.O.S. (contains Caromax 18)

#### 14.3. Transport hazard class(es)

ADR/RID class	3
ADR/RID classification code	F1
ADR/RID label	3
IMDG class	3
ICAO class/division	3
ADN class	3

#### 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

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EmS	F-E, S-E
ADR transport category	3
Emergency Action Code	•3Y
Hazard Identification Number (ADR/RID)	30
Tunnel restriction code	(D/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>	<p>Flam. Liq. = Flammable liquid          Asp. Tox. = Aspiration hazard          Eye Dam. = Serious eye damage          Skin Irrit. = Skin irritation          STOT RE = Specific target organ toxicity-repeated exposure          STOT SE = Specific target organ toxicity-single exposure          Aquatic Acute = Hazardous to the aquatic environment (acute)          Aquatic Chronic = Hazardous to the aquatic environment (chronic)</p>
<b>General information</b>	<p>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.</p>
<b>Classification procedures according to Regulation (EC) 1272/2008</b>	<p>Asp. Tox. 1 - H304: Eye Dam. 1 - H318: STOT RE 2 - H373: STOT SE 3 - H335, H336: Skin Irrit. 2 - H315: : Calculation method. Aquatic Acute 1 - H400: Aquatic Chronic 1 - H410: : Calculation method. Flam. Liq. 3 - H226: : Expert judgement.</p>
<b>Revision comments</b>	<p>Risks recalculated to ensure data is up to date</p>
<b>Revision date</b>	<p>13/12/2017</p>
<b>Revision</b>	<p>1</p>
<b>Supersedes date</b>	<p>17/01/2017</p>
<b>SDS number</b>	<p>21235</p>
<b>Hazard statements in full</b>	<p>H226 Flammable liquid and vapour.          H302 Harmful if swallowed.          H304 May be fatal if swallowed and enters airways.          H315 Causes skin irritation.          H318 Causes serious eye damage.          H319 Causes serious eye irritation.          H332 Harmful if inhaled.          H335 May cause respiratory irritation.          H336 May cause drowsiness or dizziness.          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.          H411 Toxic to aquatic life with long lasting effects.</p>

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.