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

1.1. Product identifier

BRAKE CLEANER
Aerosol

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

Cleaners - Heavy duty

1.3. Details of the supplier of the safety data sheet

CRC Industries UK Ltd.
Wylds Road
Castlefield Industrial Estate
TA6 4DD Bridgwater Somerset
United Kingdom
Tel.: +44 1278 727200
Fax.: +44 1278 425644
E-mail: hse.uk@crcind.com

1.4. Emergency telephone number

(+44)(0)1278 72 7200 (office hours)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

<table>
<thead>
<tr>
<th>Classification</th>
<th>Category/Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical</td>
<td>Aerosols, category 1</td>
</tr>
<tr>
<td></td>
<td>Extremely flammable aerosol.</td>
</tr>
<tr>
<td></td>
<td>Pressurised container: May burst if heated.</td>
</tr>
<tr>
<td>Health</td>
<td>Skin irritation, category 2</td>
</tr>
<tr>
<td></td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td></td>
<td>Eye irritation, category 2</td>
</tr>
<tr>
<td></td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td></td>
<td>Specific target organ toxicity - single exposure, category 3</td>
</tr>
<tr>
<td></td>
<td>May cause drowsiness or dizziness.</td>
</tr>
<tr>
<td>Environment</td>
<td>Hazardous to the aquatic environment, chronic category 2</td>
</tr>
<tr>
<td></td>
<td>Toxic to aquatic life with long lasting effects.</td>
</tr>
</tbody>
</table>

Classification based on test data.
Classification based on calculation method.

CRC Industries UK Limited
Ambersil House, Wylds Road, Castlefield Industrial Estate, Bridgwater, Somerset, TA6 4DD
Tel: +44 (0)1278 727200 Fax: +44 (0)1278 425644 web: www.ambersil.com
2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Product identifier: Contains:
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane

Signal word: Danger

Hazard pictogram(s):

Hazard statement(s):
- H222 : Extremely flammable aerosol.
- H229 : Pressurised container: May burst if heated.
- H315 : Causes skin irritation.
- H319 : Causes serious eye irritation.
- H336 : May cause drowsiness or dizziness.
- H411 : Toxic to aquatic life with long lasting effects.

Precautionary statement(s):
P102 : Keep out of reach of children.
P210 : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 : Do not spray on an open flame or other ignition source.
P251 : Do not pierce or burn, even after use.
P261 : Avoid breathing dust/fume/gas/mist/vapours/spray.
P271 : Use only outdoors or in a well-ventilated area.
P410/412 : Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
P501-2 : Dispose of contents/container to an authorised waste collection point.

Supplemental Hazard information: None

2.3. Other hazards

No information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

<table>
<thead>
<tr>
<th>Hazardous ingredient</th>
<th>Registration number</th>
<th>CAS-nr.</th>
<th>EC-nr</th>
<th>w/w %</th>
<th>Hazard Class and Category</th>
<th>Hazard statement</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic</td>
<td>01-2119475515-33</td>
<td>-</td>
<td>(927-510-4)</td>
<td>25-50</td>
<td>Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2</td>
<td>H225,H315,H336,H304,H411</td>
<td>Q</td>
</tr>
<tr>
<td>Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, &lt; 5% n-hexane</td>
<td>01-2119475514-35</td>
<td>-</td>
<td>(921-024-6)</td>
<td>10-25</td>
<td>Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic</td>
<td>H225,H315,H336,H304,H411</td>
<td>B,Q</td>
</tr>
</tbody>
</table>
SECTION 4: First aid measures

4.1. Description of first aid measures

Contact with eyes:
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Contact with skin:
Take off contaminated clothing and wash before reuse. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

Inhalation:
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Ingestion:
If swallowed do not induce vomiting because of risk of aspiration into the lungs. If aspiration is suspected obtain immediate medical attention.

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

Inhalation:
Excessive inhalation of solvent vapours may give rise to nausea, headaches and dizziness.

Ingestion:
After vomiting of swallowed product aspiration into lungs is likely. Solvents may induce chemical pneumonia. Symptoms: sore throat, abdominal pain, nausea, vomiting.

Skin contact:
Irritating to skin. Symptoms: redness and pain.

Eye contact:
Irritating to eyes. Symptoms: redness and pain, impaired vision.

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

General Advice:
If you feel unwell, seek medical advice (show the label where possible). If symptoms persist always call a doctor.
SECTION 5: Firefighting measures

5.1. Extinguishing media

- foam, carbon dioxide or dry agent
  Do not use water jet extinguishing media, due to the risk of spreading fire.

5.2. Special hazards arising from the substance or mixture

- Aerosols may explode if heated above 50°C
- Forms hazardous decomposition products
  CO, CO2

5.3. Advice for firefighters

- Keep container(s) exposed to fire cool, by spraying with water
- In case of fire, do not breathe fumes

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- Shut off all ignition sources
- Ensure adequate ventilation
- Wear suitable protective clothing and gloves.

6.2. Environmental precautions

- Do not allow to enter public sewers and watercourses
- If polluted water reaches drainage systems or water courses, immediately inform appropriate authorities

6.3. Methods and material for containment and cleaning up

- Absorb spillage in suitable inert material
- Place in appropriate container
- This material and/or its container must be disposed of as hazardous waste.

6.4. Reference to other sections

For further information see section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Keep away from heat and sources of ignition
- Take precautionary measures against static discharges
- Equipment should be earthed
Use explosion-proof electrical/ventilating/lighting/.../equipment. Use only non-sparking tools. Do not breathe aerosols or vapours. Ensure adequate ventilation Avoid contact with skin and eyes. Wash thoroughly after use Wear protective gloves/protective clothing/eye protection/face protection. Eyewash bottles should be available

7.2. Conditions for safe storage, including any incompatibilities

Pressurized container : protect from sunlight and do not expose to temperatures exceeding 50°C. Keep out of reach of children.

7.3. Specific end use(s)

Cleaners - Heavy duty

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits :

<table>
<thead>
<tr>
<th>Hazardous ingredient</th>
<th>CAS-nr.</th>
<th>method</th>
<th>EU established exposure limits:</th>
<th>National established exposure limits, United Kingdom</th>
</tr>
</thead>
<tbody>
<tr>
<td>carbon dioxide</td>
<td>124-38-9</td>
<td>TWA</td>
<td>9000 mg/m³</td>
<td>5000 ppm</td>
</tr>
<tr>
<td>propan-2-ol; isopropyl alcohol ;isopropanol</td>
<td>67-63-0</td>
<td>STEL TWA</td>
<td>400 ppm mg/m³</td>
<td>400 ppm</td>
</tr>
<tr>
<td>acetone; propan-2-one; propanone</td>
<td>67-64-1</td>
<td>TWA</td>
<td>500 ppm</td>
<td>500 ppm</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Control procedures :

Ensure adequate ventilation
Keep away from heat and sources of ignition
Take precautionary measures against static discharges

Personal protection :

Take precautions to avoid contact with skin and eyes when handling the product.
Ensure adequate ventilation
In all cases handle and use the product in accordance with good industrial hygiene practices.
**SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties

(for aerosols data for the product without propellant)

- **Appearance : physical state :** CO2 propelled liquid.
- **colour :** Colorless.
- **odour :** Solvent.
- **pH :** Not applicable.
- **Boiling point/range :** 56-99 °C
- **Flash point :** - 26 °C
- **Evaporation rate :** 2.8 (Ether=1)
- **Explosion limits : upper limit :** 13 Not available.
- **lower limit :** 0.9 %
- **Vapour pressure :** Not available.
- **Relative density :** 0.714 g/cm3 (@ 20°C).
- **Solubility in water :** Insoluble in water
- **Auto-ignition :** > 200 °C
- **Viscosity :** Not available.

9.2. Other information

- **VOC = volatile organic compounds**
  - 685 g/l

**SECTION 10: Stability and reactivity**

10.1. Reactivity

No hazardous reactions known if used for its intended purpose

10.2. Chemical stability

Stable
10.3. Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose

10.4. Conditions to avoid

Avoid overheating

10.5. Incompatible materials

Strong oxidising agent

10.6. Hazardous decomposition products

CO, CO₂

SECTION 11: Toxicological information

11.1. Information on toxicological effects

- **acute toxicity:** based on available data the classification criteria are not met
- **skin corrosion/irritation:** Causes skin irritation.
- **serious eye damage/irritation:** Causes serious eye irritation.
- **respiratory or skin sensitisation:** based on available data the classification criteria are not met
- **germ cell mutagenicity:** based on available data the classification criteria are not met
- **carcinogenicity:** based on available data the classification criteria are not met
- **toxicity for reproduction:** based on available data the classification criteria are not met
- **STOT-single exposure:** May cause drowsiness or dizziness.
- **STOT repeated exposure:** based on available data the classification criteria are not met
- **aspiration hazard:** based on available data the classification criteria are not met

Information on likely routes of exposure:

- **Inhalation:** Inhalation of solvent vapours may give rise to nausea, headaches and dizziness
- **Ingestion:** After vomiting of swallowed product aspiration into lungs is likely. Solvents may induce chemical pneumonia.
- **Skin contact:** Irritating to skin
- **Eye contact:** Irritating to eyes

Toxicological data:

<table>
<thead>
<tr>
<th>Hazardous ingredient</th>
<th>CAS-nr.</th>
<th>method</th>
<th>value</th>
</tr>
</thead>
<tbody>
<tr>
<td>propan-2-ol; isopropyl alcohol ;isopropanol</td>
<td>67-63-0</td>
<td>LD50 oral rat</td>
<td>5840 mg/kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LC50 inhal.rat</td>
<td>&gt; 25000 mg/l</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LD50 derm.rab</td>
<td>13900 mg/kg</td>
</tr>
<tr>
<td>acetone; propan-2-one; propanone</td>
<td>67-64-1</td>
<td>LD50 oral rat</td>
<td>&gt; 5800 mg/kg</td>
</tr>
</tbody>
</table>
SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, chronic category 2
Toxic to aquatic life with long lasting effects.

Ecotoxicological data:

<table>
<thead>
<tr>
<th>Hazardous ingredient</th>
<th>CAS-nr.</th>
<th>method</th>
<th>LC50 inhal.rat</th>
<th>LD50 derm.rabbit</th>
</tr>
</thead>
<tbody>
<tr>
<td>propan-2-ol; isopropyl alcohol ;isopropanol</td>
<td>67-63-0</td>
<td>IC50 algae</td>
<td>1000 mg/l</td>
<td>76 mg/l</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LC50 fish</td>
<td>9640 mg/l</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>EC50 daphnia</td>
<td>9714 mg/l</td>
<td></td>
</tr>
<tr>
<td>acetone; propan-2-one; propanone</td>
<td>67-64-1</td>
<td>IC50 algae</td>
<td>530 mg/l</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>LC50 fish</td>
<td>5540 mg/l</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>EC50 daphnia</td>
<td>8800 mg/l</td>
<td></td>
</tr>
<tr>
<td>Hydrocarbons, C6-C7, n-alkanes,isoalkanes,cyclics,&lt; 5% n-hexane</td>
<td>-</td>
<td>LC50 fish</td>
<td>&gt; 10 mg/l</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>EC50 daphnia</td>
<td>3 mg/l</td>
<td></td>
</tr>
<tr>
<td>Hydrocarbons, C7, n-alkanes,isoalkanes, cyclic</td>
<td>-</td>
<td>IC50 algae</td>
<td>10-30 mg/l</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>LC50 fish</td>
<td>&gt; 13.4 mg/l</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>EC50 daphnia</td>
<td>3 mg/l</td>
<td></td>
</tr>
<tr>
<td>hydrocarbons,C6,isoalkanes,&lt; 5% n-hexane</td>
<td>-</td>
<td>IC50 algae</td>
<td>55 mg/l</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>LC50 fish</td>
<td>&gt; 1 mg/l</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>EC50 daphnia</td>
<td>3.87 mg/l</td>
<td></td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability

No experimental data available

12.3. Bioaccumulative potential

No experimental data available

12.4. Mobility in soil
Insoluble in water

12.5. Results of PBT and vPvB assessment

No information available

12.6. Other adverse effects

No experimental data available
GWP (global warming potential): 0

SECTION 13: Disposal considerations

13.1. Waste treatment methods

<table>
<thead>
<tr>
<th>Product</th>
<th>This material and its container must be disposed of in a safe way. Do not discharge into drains or the environment, dispose to an authorised waste collection point.</th>
</tr>
</thead>
<tbody>
<tr>
<td>National regulations</td>
<td>Disposal should be in accordance with local, state or national legislation</td>
</tr>
</tbody>
</table>

SECTION 14: Transport information

14.1. UN number

UN-number: 1950

14.2. UN proper shipping name

Proper shipping name: AEROSOLS (naphta's)

14.3. Transport hazard class(es)

Class: 2.1
ADR/RID - Classification code: 5F

14.4. Packing group

Packing group: Not applicable.

14.5. Environmental hazards

| ADR/RID - Environmentally hazardous | Yes |
| IMDG - Marine pollutant | Marine pollutant |
| IATA/ICAO - Environmentally hazardous | Yes |

14.6. Special precautions for user
14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable.

SECTION 15: Regulatory information

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

The Safety Data Sheet is compiled according to the current European requirements.
Regulation (EC) No 1907/2006 (REACH)
Regulation (EC) No 1272/2008 (CLP)
Dir. 2013/10/EU, 2008/47/EC amendment of the aerosol dispenser directive 75/324/EEC.

15.2. Chemical safety assessment

No information available

SECTION 16: Other information

*Explanation hazard statements:
H225 : Highly flammable liquid and vapour.
H280 : Contains gas under pressure; may explode if heated.
H304 : May be fatal if swallowed and enters airways.
H315 : Causes skin irritation.
H319 : Causes serious eye irritation.
H336 : May cause drowsiness or dizziness.
H411 : Toxic to aquatic life with long lasting effects.

acronyms and synonyms:
TWA = time weight average
STEL = short time exposure limit
VOC = volatile organic compounds
PBT = persistant bioaccumulative toxic
vPvB = very persistant very bioaccumulative

This product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with any legal regulation.
The information contained herewith is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It does not guarantee any specific properties.
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