

**Productname :** FLAW DETECTOR PENETRANT 2      **Creationdate :** 09.01.12 Version : 1.0  
**Ref.Nr.:** BDS001088\_3\_20120109      **Replaces:** UK10068

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

### 1.1. Product identifier

**FLAW DETECTOR PENETRANT 2**  
Aerosol

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

Welding Products

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

CRC Industries UK Ltd.  
Ambersil House - Wylids 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

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to 67/548/EEC or 1999/45/EC:

|                     |   |
|---------------------|---|
| <b>Health:</b>      | R66: Repeated exposure may cause skin dryness or cracking.  |
| <b>Physical:</b>    | EXTREMELY FLAMMABLE   |
| <b>Environment:</b> | R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |

### 2.2. Label elements

**Warning symbol(s) :** EXTREMELY FLAMMABLE



**Risk-phrase(s) :** R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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|   |  |
|---|--|
| <b>Safety-phrase(s) :</b>   | R66: Repeated exposure may cause skin dryness or cracking.<br>S2: Keep out of the reach of children.<br>S16: Keep away from sources of ignition - No smoking.<br>S23: Do not breathe vapours/spray.<br>S24/25: Avoid contact with skin and eyes.<br>S35: This material and its container must be disposed of in a safe way.<br>S51: Use only in well-ventilated areas. |
| <b>Special labelling provisions:</b>  | Contains:<br>N-(2-ethylhexyl)-1-[[3-methyl-4-[(3 methylphenyl)azo]phenyl]azo] naphthalen-2-amine<br>May produce an allergic reaction.  |
| <b>Extra label elements according to Aerosol Dispenser Directive 75/324/EC:</b> | Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material.<br>Without adequate ventilation formation of explosive mixtures may be possible.   |
| <b>Other extra label elements:</b>  | Remark: Preparations classified as harmful on the basis of an aspiration hazard need not be labelled as harmful with R65 when placed on the market in aerosol containers or in containers fitted with a sealed spray attachment. (EU-Directive 67/548 Annex VI 9.4)  |

### 2.3. Other hazards

None

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable.

### 3.2. Mixtures

| Hazardous ingredient  | CAS-nr.    | EC-nr     | w/w % | symbol | R-phrases*     | Notes |
|---|------------|-----------|-------|--------|----------------|-------|
| Hydrocarbons,C3-4-rich, petroleum distillate Petroleumgas (1,3-butadiene < 0.1%)          | 68512-91-4 | 270-990-9 | 50-75 | F+     | 12             | K     |
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics                     | -          | 926-141-6 | 25-50 | Xn     | 65-66          |       |
| Solvent naphtha (petroleum), heavy arom. (benzene<0.1%)                                   | 64742-94-5 | 265-198-5 | 1-5   | Xn,N   | 51/53-65-66-67 | B     |
| alcohols, C9-11, ethoxylated  | 68439-46-3 |           | <5    | Xn     | 22-41          |       |
| (Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine   | 110-25-8   | 203-749-3 | <1    | Xi,N   | 38-41-50/53    |       |
| N-(2-ethylhexyl)-1-[[3-methyl-4-[(3 methylphenyl)azo]phenyl]azo] naphthalen-2-amine       | 56358-10-2 | 260-125-3 | <1    | Xi     | 38-43          |       |
| <b>Explanation notes</b>  |            |           |       |        |                |       |
| B : substance with national established workplace exposure limit                          |            |           |       |        |                |       |
| K : not classified as carcinogen, less than 0.1% w/w 1,3-butadiene (Einecs-nr. 203-450-8) |            |           |       |        |                |       |

| Hazardous ingredient | Registration | CAS- | EC-nr | w/w | Hazard Class and | Hazard | Notes |
|----------------------|--------------|------|-------|-----|------------------|--------|-------|
|----------------------|--------------|------|-------|-----|------------------|--------|-------|

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|   | number           | nr. |           | %     | Category    | statement |
|---|------------------|-----|-----------|-------|-------------|-----------|
| Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics | 01-2119456620-43 | -   | 926-141-6 | 25-50 | Asp. Tox. 1 | H304      |

(\* Explanation phrases : see chapter 16)

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                            |   |
|----------------------------|---|
| <b>Contact with eyes :</b> | If substance has got into eyes, immediately wash out with plenty of water<br>Seek medical attention if irritation persists  |
| <b>Contact with skin :</b> | Wash with water and soap.<br>Seek medical attention if irritation persists  |
| <b>Inhalation :</b>        | Fresh air, keep warm and at rest.<br>Seek medical attention if ill effects occur  |
| <b>Ingestion :</b>         | Ingestion is unlikely to occur<br>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

|                       |  |
|-----------------------|--|
| <b>Inhalation :</b>   | Excessive inhalation of solvent vapours may give rise to nausea, headaches and dizziness   |
| <b>Ingestion :</b>    | After vomiting of swallowed product aspiration into lungs is likely. Solvents may induce chemical pneumonia.<br>Symptoms : sore throat, abdominal pain, nausea, vomiting |
| <b>Skin contact :</b> | May cause irritation.<br>Symptoms : redness and pain   |
| <b>Eye contact :</b>  | May cause irritation.<br>Symptoms : redness and pain   |

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

|                         |   |
|-------------------------|---|
| <b>General Advice :</b> | If you feel unwell, seek medical advice (show the label where possible)<br>If symptoms persist always call a doctor |
|-------------------------|---|

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

foam, carbon dioxide or dry agent

### 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



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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

### 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.

### 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)

Welding Products

## SECTION 8: Exposure controls/personal protection



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### 8.1. Control parameters

#### Exposure limits :

No information available

### 8.2. Exposure controls

|                              |  |
|------------------------------|--|
| <b>Control procedures :</b>  | Ensure adequate ventilation<br>Keep away from heat and sources of ignition<br>Take precautionary measures against static discharges                            |
| <b>Personal protection :</b> | Take precautions to avoid contact with skin and eyes when handling the product.<br>Ensure adequate ventilation   |
| <b>inhalation :</b>          | In case of insufficient ventilation, wear suitable respiratory equipment.<br>Air purifying respirator equipped with organic gas/vapor cartridge (type A or AX) |
| <b>hands and skin :</b>      | Wear suitable protective gloves<br>(nitrile)   |
| <b>eyes :</b>                | Wear safety goggles.   |

## SECTION 9: Physical and chemical properties

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

(for aerosols data for the product without propellant)

|   |                                   |
|---|-----------------------------------|
| <b>Apperance : physical state :</b>     | Propane/butane propelled liquid.  |
| <b>colour :</b>                         | Red.                              |
| <b>odour :</b>                          | Solvent.                          |
| <b>pH :</b>                             | Not applicable.                   |
| <b>Boiling point/range :</b>            | Not available.                    |
| <b>Flash point :</b>                    | >62 °C                            |
| <b>Evaporation rate :</b>               | Not available.                    |
| <b>Explosion limits : upper limit :</b> | Not available.                    |
| <b>lower limit :</b>                    | Not available.                    |
| <b>Vapour pressure :</b>                | Not available.                    |
| <b>Relative density :</b>               | 0.826 g/cm <sup>3</sup> (@ 20°C). |
| <b>Solubility in water :</b>            | Emulsifies with water             |
| <b>Auto-ignition :</b>                  | > 200 °C                          |
| <b>Viscosity :</b>                      | Not available.                    |

### 9.2. Other information

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No hazardous reactions known if used for its intended purpose



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## 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

|                       |  |
|-----------------------|--|
| <b>Inhalation :</b>   | Inhalation of solvent vapours may give rise to nausea, headaches and dizziness   |
| <b>Ingestion :</b>    | After vomiting of swallowed product aspiration into lungs is likely. Solvents may induce chemical pneumonia.   |
| <b>Skin contact :</b> | Prolonged skin contact will result in defatting of the skin, leading to irritation, and in some cases, dermatitis<br>Repeated exposure may cause skin dryness or cracking. |
| <b>Eye contact :</b>  | May cause irritation.  |

## Toxicological data :

| Hazardous ingredient                                    | CAS-nr.    | method          |                 |
|---|------------|-----------------|-----------------|
| Solvent naphtha (petroleum), heavy arom. (benzene<0.1%) | 64742-94-5 | LD50 oral rat   | > 2000 mg/kg    |
|   |            | LD50 derm.rabit | > 2000 mg/kg    |
| alcohols, C9-11, ethoxylated                            | 68439-46-3 | LD50 oral rat   | 1000-1400 mg/kg |
|   |            | LD50 derm.rabit | >2000 mg/kg     |

# SECTION 12: Ecological information

## 12.1. Toxicity

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.



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**Ecotoxicological data:**

| Hazardous ingredient         | CAS-nr.    | method       |             |
|------------------------------|------------|--------------|-------------|
| alcohols, C9-11, ethoxylated | 68439-46-3 | LC50 fish    | 10-100 mg/l |
|                              |            | EC50 daphnia | 5-25 mg/l   |

**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****SECTION 13: Disposal considerations****13.1. Waste treatment methods**

**Product :** 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.  
**Contaminated packaging :** Disposal should be in accordance with local, state or national legislation

**SECTION 14: Transport information****14.1. UN number**

UN-number : 1950

**14.2. UN proper shipping name**

Proper shipping name: AEROSOLS, flammable

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

Class: 2.1



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ADR/RID - Classification code: 5F

#### 14.4. Packing group

Packing group: Not applicable.

#### 14.5. Environmental hazards

ADR/RID - Environmentally hazardous: No  
IMDG - Marine pollutant: No  
IATA/ICAO - Environmentally hazardous: No

#### 14.6. Special precautions for user

ADR/RID - Tunnelcode: (D)  
IMDG - Ems: F-D,S-U  
IATA/ICAO - PAX: 203  
IATA/ICAO - CAO: 203

#### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

### SECTION 15: Regulatory information

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

The Safety Data Sheet is compiled according to the current European requirements.  
Dir. 2008/47/EC amendment of the aerosol dispenser directive 75/324/EEC.  
EU-directive 99/45/EC  
Regulation (EC) No 1907/2006 (REACH)

#### 15.2. Chemical safety assessment

No information available

### SECTION 16: Other information

\*Explanation risk-phrases:

- R12: Extremely flammable.
- R22: Harmful if swallowed.
- R38: Irritating to skin.
- R41: Risk of serious damage to eyes.
- R43: May cause sensitization by skin contact.
- R65: Harmful: may cause lung damage if swallowed.
- R66: Repeated exposure may cause skin dryness or cracking.
- R67: Vapours may cause drowsiness and dizziness.
- R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects





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|                      |                           |                       |                        |
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in the aquatic environment.

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

\*Explanation hazard statements: H304 : May be fatal if swallowed and enters airways.

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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