



## SAFETY DATA SHEET

C-SOLVE (AEROSOL)

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Issued: 27/02/06

Revision No: 3

### 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

**Product name:** C-SOLVE (AEROSOL)

**Use / description of product:** Multi-purpose solvent degreaser.

**Company name:** Unicorn Chemicals Ltd

Unicorn House

Mowbray Drive

Blackpool

Lancashire

FY3 7UN

Tel: 01253 396101

Fax: 01253 302895

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

**Hazardous ingredients:** NAPHTHA (PETROLEUM), HYDROTREATED LIGHT; LOW BOILING POINT HYDROGEN  
30-50%

CAS: 64742-49-0

[F] R11; [Xn] R65; [Xi] R38; [N] R51/53; [-] R67

- ACETONE 1-10%

EINECS: 200-662-2 CAS: 67-64-1

[F] R11; [Xi] R36; [-] R66; [-] R67

- PROPAN-2-OL 1-10%

EINECS: 200-661-7 CAS: 67-63-0

[F] R11; [Xi] R36; [-] R67

- BUTANE 10-30%

EINECS: 203-448-7 CAS: 106-97-8

[F+] R12

- PROPANE 10-30%

EINECS: 200-827-9 CAS: 74-98-6

[F+] R12

### 3. HAZARDS IDENTIFICATION

**Main hazards:** Extremely flammable. Irritating to eyes and skin. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Vapours may cause drowsiness and dizziness.

**Other hazards:** In use, may form flammable / explosive vapour-air mixture.

### 4. FIRST AID MEASURES (SYMPTOMS)

**Skin contact:** There may be irritation and redness at the site of contact.

[cont...]

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**Eye contact:** There may be irritation and redness. The eyes may water profusely.

**Ingestion:** Aerosol packs make the possibility of ingestion unlikely, however if this should occur, irritation of mouth/throat, nausea and stomach pain may result.

**Inhalation:** Inhalation of high levels of vapour may cause upper respiratory tract irritation. Drowsiness or mental confusion may occur. There may be loss of consciousness.

**4. FIRST AID MEASURES (ACTION)**

**Skin contact:** Wash with soap and water. Seek medical advice if irritation develops.

**Eye contact:** Rinse immediately with plenty of water for at least 10 minutes and seek medical advice.

**Ingestion:** If affected, seek medical advice.

**Inhalation:** Remove to fresh air. Perform artificial respiration if breathing has stopped. Keep the affected person warm and at rest. Get prompt medical attention.

**5. FIRE-FIGHTING MEASURES**

**Extinguishing media:** Carbon dioxide. Alcohol or polymer foam. Dry chemical powder.

**Exposure hazards:** In combustion emits toxic fumes.

**Protection of fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions:** Evacuate the area immediately. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Wear appropriate protective clothing. Eliminate all sources of ignition. Extinguish naked flames. No smoking. Avoid sparks.

**Clean-up procedures:** If spillage is from leaking/punctured cans, ensure adequate ventilation and allow propellant to evaporate. Wipe up liquid spillage with absorbent material and dispose of safely.

**7. HANDLING AND STORAGE**

**Handling requirements:** Ensure there is sufficient ventilation of the area. Smoking is forbidden. Do not breathe vapour. Do not handle in a confined space. Extinguish any naked flames. Remove ignition sources. Avoid sparks. Use non-sparking tools. Take precautionary measures against static discharges. Avoid prolonged or repeated contact with skin.

**Storage conditions:** Store in a cool, well ventilated area, below 50°C. Keep away from direct sunlight. Keep away from sources of ignition.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Hazardous ingredients:** NAPHTHA (PETROLEUM), HYDROTREATED LIGHT; LOW BOILING POINT HYDROGEN  
WEL (8 hr exposure limit): 1000 mg/m<sup>3</sup>

- ACETONE

WEL (8 hr exposure limit): 1210 mg/m<sup>3</sup> WEL (15 min exposure limit): 3620 mg/m<sup>3</sup>

- PROPAN-2-OL

WEL (8 hr exposure limit): 999 mg/m<sup>3</sup> WEL (15 min exposure limit): 1250 mg/m<sup>3</sup>

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- BUTANE  
WEL (8 hr exposure limit): 1450 mg/m<sup>3</sup> WEL (15 min exposure limit): 1810 mg/m<sup>3</sup>
- PROPANE  
WEL (8 hr exposure limit): 1800 mg/m<sup>3</sup> WEL (15 min exposure limit): 7200 mg/m<sup>3</sup>

**Engineering measures:** Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Naphtha (Petroleum), Hydrotreated Light; Low Boiling Hydrogen OEL: 1000mg/m<sup>3</sup> (8h TWA-suggested).

**Respiratory protection:** If Workplace Exposure Limit(s) listed above are exceeded, respiratory protection may be required.

**Hand protection:** Use of impervious gloves is recommended.

**Eye protection:** Wear safety glasses or goggles if risk of splashing.

**Skin protection:** Protective overalls.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**State:** Aerosol

**Colour:** Colourless

**Odour:** Cherry

**Oxidising:** Non-oxidising (by EC criteria)

**Solubility in water:** Insoluble

**Viscosity:** Non-viscous

**Flammability limits %: lower:** 0.8

**upper:** 13.0

**Flash point°C:** -40

**Autoflammability°C:** >230

**10. STABILITY AND REACTIVITY**

**Stability:** Stable under normal conditions.

**Conditions to avoid:** Sources of ignition. Hot surfaces. Flames.

**Materials to avoid:** Strong acids. Strong bases. Strong oxidising agents.

**Haz. decomp. products:** In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

**11. TOXICOLOGICAL INFORMATION**

**Hazardous ingredients:** ACETONE

IVN RAT LD50 5500 mg/kg

ORL MUS LD50 3 gm/kg

ORL RAT LD50 5800 mg/kg

- PROPAN-2-OL

IVN RAT LD50 1088 mg/kg

ORL MUS LD50 3600 mg/kg

ORL RAT LD50 5045 mg/kg

SCU MUS LDLO 6 gm/kg

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**Routes of exposure:** May cause eye irritation. Prolonged contact with skin may cause irritation leading to dermatitis in extreme cases. Exposure to high levels of vapour may cause drowsiness, dizziness, nausea, headaches, vomiting.

**12. ECOLOGICAL INFORMATION**

**Mobility:** Insoluble in water. Volatile.

**Persistence and degradability:** Biodegradable.

**Other adverse effects:** The aerosol contents are potentially harmful to aquatic organisms.

**13. DISPOSAL CONSIDERATIONS**

**Disposal operations:** Contact Unicorn Chemicals Ltd to arrange disposal.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

**14. TRANSPORT INFORMATION**

**ADR / RID**

**UN no:** 1950 **ADR Class:** 2  
**Classification code:** 5F  
**Shipping name:** AEROSOLS  
**Labelling:** 2.1



**IMDG / IMO**

**UN no:** 1950 **Class:** 2  
**EmS:** F-D,S-U **Marine pollutant:** .  
**Labelling:** 2.1

**IATA / ICAO**

**UN no:** 1950 **Class:** 2  
**Labelling:** 2.1

**15. REGULATORY INFORMATION**

**Hazard symbols:** Extremely flammable.  
 Irritant.  
 Dangerous for the environment.



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**Risk phrases:** R12: Extremely flammable.  
R36/38: Irritating to eyes and skin.  
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R67: Vapours may cause drowsiness and dizziness.

**Safety phrases:** S2: Keep out of the reach of children.  
S16: Keep away from sources of ignition - No smoking.  
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S51: Use only in well-ventilated areas.  
S61: Avoid release to the environment. Refer to special instructions / safety data sheets.

**Precautionary phrases:** Pressurized 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. Keep away from sources of ignition - No smoking. Keep out of the reach of children.

**Note:** The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

### 16. OTHER INFORMATION

**Other information:** This product belongs to Hazard Groups A and S under the HSE COSHH Essentials guidelines. (Publication HSG193).

Always use in accordance with manufacturer's directions.

This safety data sheet is prepared in accordance with EC Directive 2001/58/EC.

**Risk phrases used in s.2:** R11: Highly flammable.  
R65: Harmful: may cause lung damage if swallowed.  
R38: Irritating to skin.  
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R67: Vapours may cause drowsiness and dizziness.  
R36: Irritating to eyes.  
R66: Repeated exposure may cause skin dryness or cracking.  
R12: Extremely flammable.

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.