



## SAFETY DATA SHEET

D.F.L.

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Issued: 29/08/06

Revision No: 5

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

**Product name:** D.F.L.

**Use / description of product:** Dry graphite lubricant coating.

**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:** XYLENE 10-30%

EINECS: 215-535-7 CAS: 1330-20-7

[ - ] R10; [ Xn ] R20/21; [ Xi ] R38

- DICHLOROMETHANE 30-50%

EINECS: 200-838-9 CAS: 75-09-2

[ Xn ] R40

- 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. Harmful by inhalation and in contact with skin. Limited evidence of a carcinogenic effect.

**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. Prolonged or repeated contact may defat the skin leading to dermatitis.

**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. Exposure may

[cont...]

cause coughing or wheezing. There may be congestion of the lungs causing severe shortness of breath. There may be loss of consciousness.

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

- Skin contact:** Wash skin thoroughly with soap and warm water. Dry skin and apply replenishing cream. Seek medical advice if irritation develops.
- Eye contact:** Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.
- Ingestion:** If affected, seek medical advice.
- Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. If conscious, ensure the casualty sits or lies down. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

#### 5. FIRE-FIGHTING MEASURES

- Extinguishing media:** Carbon dioxide. Alcohol resistant foam.
- Exposure hazards:** Extremely flammable. Forms explosive air-vapour mixture. 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:** Eliminate all sources of ignition. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Wear appropriate protective clothing.
- Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using sufficient appropriate absorbent material.
- 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. Do not handle in a confined space. Avoid direct contact with the substance. Smoking is forbidden.
- Storage conditions:** Store in cool, well ventilated area. Keep away from sources of ignition. Keep container tightly closed. Ensure lighting and electrical equipment are not a source of ignition.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Hazardous ingredients:** XYLENE  
WEL (8 hr exposure limit): 220 mg/m<sup>3</sup> WEL (15 min exposure limit): 441 mg/m<sup>3</sup> (Sk)
- DICHLOROMETHANE  
WEL (8 hr exposure limit): 350 mg/m<sup>3</sup> WEL (15 min exposure limit): 1060 mg/m<sup>3</sup> (Sk)
  - 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.

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

**Hand protection:** Protective gloves. (Sk) noted above means can be absorbed through skin.

**Eye protection:** Safety goggles.

**Skin protection:** Protective overalls.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**State:** Aerosol

**Colour:** Black

**Odour:** Characteristic odour

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

**Solubility in water:** Insoluble

**Flammability limits %: lower:** 0.8

**upper:** 19.0

**Flash point°C:** -40

## 10. STABILITY AND REACTIVITY

**Stability:** Stable under normal conditions.

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

**Materials to avoid:** Oxidising agents.

## 11. TOXICOLOGICAL INFORMATION

**Hazardous ingredients:** XYLENE

ORL MUS LD50 2119 mg/kg

ORL RAT LD50 4300 mg/kg

SCU RAT LD50 1700 mg/kg

- DICHLOROMETHANE

ORL MUS LD50 4770 mg/kg

ORL RAT LD50 5350 mg/kg

SCU MUS LD50 6460 mg/kg

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

## 12. ECOLOGICAL INFORMATION

**Mobility:** Insoluble in water.

**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.

Harmful.



**Risk phrases:** R12: Extremely flammable.

R20/21: Harmful by inhalation and in contact with skin.

R40: Limited evidence of a carcinogenic effect.

**Safety phrases:** S2: Keep out of the reach of children.

S23: Do not breathe vapour/spray.

S36/37: Wear suitable protective clothing and gloves.

S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S51: Use only in well-ventilated areas.

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**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:** 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:** R10: Flammable.

R20/21: Harmful by inhalation and in contact with skin.

R38: Irritating to skin.

R40: Limited evidence of a carcinogenic effect.

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.