



## SAFETY DATA SHEET

HDA

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Issued: 13/07/06

Revision No: 2

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

**Product name:** HDA

**Use / description of product:** Non-chlorinated heavy duty aerosol adhesive.

**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:** HEPTANE 10-30%

EINECS: 205-563-8 CAS: 142-82-5

[F] R11; [Xi] R38; [N] R50/53; [Xn] R65; [-] R67

- METHYL ETHYL KETONE 10-30%

- ACETONE 1-10%

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

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

- ISOBUTANE 1-10%

EINECS: 200-857-2 CAS: 75-28-5

[F+] R12

- BUTANE 10-30%

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

[F+] R12

- PROPANE 1-10%

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

[F+] R12

- DIMETHYL ETHER 10-30%

EINECS: 204-065-8 CAS: 115-10-6

[F+] R12

### 3. HAZARDS IDENTIFICATION

**Main hazards:** Extremely flammable. Irritating to skin. Very 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.

[cont...]

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

- Skin contact:** There may be irritation and redness at the site of contact.
- Eye contact:** There may be irritation and redness. Corneal burns may occur.
- 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:** Exposure may cause coughing or wheezing. There may be congestion of the lungs causing severe shortness of breath. There may be loss of consciousness. Convulsions may occur.

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

- Skin contact:** Wash skin thoroughly with water and remove contaminated clothing. Obtain medical attention if symptoms develop.
- 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. Dry chemical powder. Alcohol resistant foam. Water spray.
- Exposure hazards:** Extremely flammable. Vapour may travel considerable distance to source of ignition and flash back. Forms explosive air-vapour mixture.
- 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.
- Environmental precautions:** 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. Avoid direct contact with the substance. Smoking is forbidden.
- Storage conditions:** Store in a cool, well ventilated area, below 50°C. Keep away from sources of ignition.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Hazardous ingredients:** HEPTANEWEL (8 hr exposure limit): 2100 mg/m<sup>3</sup> WEL (15 min exposure limit): 8400 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>

## • ISOBUTANE

WEL (8 hr exposure limit): 2400 mg/m<sup>3</sup> WEL (15 min exposure limit): 9600 mg/m<sup>3</sup>

## • 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>

## • DIMETHYL ETHER

WEL (8 hr exposure limit): 766 mg/m<sup>3</sup> WEL (15 min exposure limit): 958 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:** Pale brown**Odour:** Characteristic odour**Oxidising:** Non-oxidising (by EC criteria)**Solubility in water:** Insoluble**Flammability limits %: lower:** 0.8**upper:** 18.6**Flash point°C:** -41**10. STABILITY AND REACTIVITY****Stability:** Stable under normal conditions.**Conditions to avoid:** Hot surfaces. Sources of ignition. Flames.**Materials to avoid:** Strong acids. Strong bases. Oxidising agents.**11. TOXICOLOGICAL INFORMATION****Hazardous ingredients:** HEPTANE

IVN MUS LD50 222 mg/kg

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- METHYL ETHYL KETONE  
IPR RAT LD50 607 mg/kg  
ORL MUS LD50 4050 mg/kg  
ORL RAT LD50 2737 mg/kg
- ACETONE  
IVN RAT LD50 5500 mg/kg  
ORL MUS LD50 3 gm/kg  
ORL RAT LD50 5800 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**

**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.



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

R38: Irritating to skin.

R50/53: Very 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.

S23: Do not breathe vapour/spray.

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:** 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.

R38: Irritating to skin.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65: Harmful: may cause lung damage if swallowed.

R67: Vapours may cause drowsiness and dizziness.

R36: Irritating to eyes.

R66: Repeated exposure may cause skin dryness or cracking.

R12: Extremely flammable.

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**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.