



SAFETY DATA SHEET

A0028

Page 1

Issued: 07/09/2005

Revision No: 5

Sent to: HALLMARK FRAULO LTD

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

Product name: A0028

Use / description of product: Adhesive

Company name: Apollo Chemicals Ltd

Sandy Way

Amington Industrial Estate

Tamworth

B77 4DS

UK

Tel: 01827 54281

Fax: 01827 53030

2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients: TOLUENE 38.800%

EINECS: 203-625-9 CAS: 108-88-3

[F] R11; [Xi] R38; [Xn] R48/20; [Xn] R63; [Xn] R65; [-] R67

- METHYL ETHYL KETONE 10.000%
- MIXED ALIPHATIC HYDROCARBONS 26.800%

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

3. HAZARDS IDENTIFICATION

Main hazards: Highly flammable. Irritating to skin. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Possible risk of harm to the unborn child. 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.

Eye contact: There may be irritation and redness. Corneal burns may occur.

Ingestion: Nausea and stomach pain may occur. There may be vomiting.

Inhalation: Exposure may cause coughing or wheezing. There may be congestion of the lungs causing severe shortness of breath. Drowsiness or mental confusion may occur.

4. FIRST AID MEASURES (ACTION)

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Remove from skin with paper or towel. Wash effected area thoroughly with soap and water. Seek medical advice if symptoms persist. Wash the affected area thoroughly with soap and water and rinse thoroughly. Seek medical help if symptoms persist

[cont...]

Eye contact: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

Ingestion: Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Transfer to hospital as soon as possible.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Obtain medical help if there is difficulty breathing. Consult a doctor if symptoms persist.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Carbon dioxide. Alcohol or polymer foam. Dry chemical powder. Water spray. Use water spray to cool containers.

Exposure hazards: Highly flammable. 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. Turn leaking containers leak-side up to prevent the escape of liquid. Refer to section 8 of SDS for personal protection details.

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

Clean-up procedures: Absorb into dry earth or sand.

7. HANDLING AND STORAGE

Handling requirements: Ensure there is sufficient ventilation of the area. Smoking is forbidden. Avoid direct contact with the substance. Use non-sparking tools. Earth any equipment used in handling.

Storage conditions: Store in cool, well ventilated area. Keep away from sources of ignition. Keep container tightly closed.

Suitable packaging: Stainless steel. Do not use plastic containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Workplace exposure limits

WEL (8 hr exposure limit): 191mg/m³

WEL (15 min exposure limit): 574mg/m³

Hazardous ingredients: TOLUENE

WEL (8 hr exposure limit): 191 mg/m³ WEL (15 min exposure limit): 574 mg/m³

- MIXED ALIPHATIC HYDROCARBONS

WEL (8 hr exposure limit): 1000mg/m³ WEL (15 min exposure limit): 1000mg/m³

Engineering measures: Ensure there is sufficient ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition.

Respiratory protection: In case of insufficient ventilation wear suitable respiratory equipment. If exposure levels are likely to be exceeded, use a full face mask fitted with an organic AXP3 filter for short term low level exposures. For long term or high level exposures, compressed airline breathing apparatus should be used.

Hand protection: Protective gloves. 4 H Chemical Gloves Viton gloves.

Eye protection: Safety goggles.

Skin protection: Protective clothing with elasticated cuffs and closed neck. Boots made of PVC. Ensure safety shower is to hand.

9. PHYSICAL AND CHEMICAL PROPERTIES

State: Liquid

Colour: Cream

Odour: Characteristic odour

Evaporation rate: Fast

Oxidising: Non-oxidising (by EC criteria)

Solubility in water: Insoluble

Viscosity: Viscous

Boiling point/range°C: 62

Flammability limits %: lower: 0.9

upper: 13

Flash point°C: -35

Autoflammability°C: 230

Relative density: 0.85

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Conditions to avoid: Sources of ignition.

Materials to avoid: Oxidising agents.

Haz. decomp. products: In combustion emits toxic fumes.

11. TOXICOLOGICAL INFORMATION

Hazardous ingredients: TOLUENE

IVN RAT LD50 1960 mg/kg

ORL MUS LD50 2 gm/kg

ORL RAT LD50 6900 mg/kg

• METHYL ETHYL KETONE

IPR RAT LD50 607 mg/kg

ORL MUS LD50 4050 mg/kg

ORL RAT LD50 2737 mg/kg

• MIXED ALIPHATIC HYDROCARBONS

ORL RAT LD50 >5000 mg/kg

12. ECOLOGICAL INFORMATION

Mobility: Volatile.

Persistence and degradability: Biodegradable in part only.

Bioaccumulative potential: No data available.

Other adverse effects: Toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

Disposal operations: Arrange for disposal by a licenced waste disposal company

Disposal of packaging: Arrange for disposal by a licenced waste disposal company

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: 1133

ADR Class: 3

Packing group: II

Classification code: F1

Shipping name: ADHESIVES

Labelling: 3

Hazard ID no: 33

**IMDG / IMO**

UN no: 1133

Class: 3

Packing group: II

EmS: F-E,S-D

Marine pollutant: .

Labelling: 3

IATA / ICAO

UN no: 1133

Class: 3

Packing group: II

Packing instructions: 305(P&CA); 307(CAO)

Labelling: 3

15. REGULATORY INFORMATION

Hazard symbols: Highly flammable.

Harmful.

Dangerous for the environment.



SAFETY DATA SHEET

A0028

Risk phrases: R11: Highly flammable.
R38: Irritating to skin.
R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R63: Possible risk of harm to the unborn child.
R67: Vapours may cause drowsiness and dizziness.

Safety phrases: S16: Keep away from sources of ignition - No smoking.
S33: Take precautionary measures against static discharges.
S23: Do not breathe vapour.
S38: In case of insufficient ventilation, wear suitable respiratory equipment.
S36/37: Wear suitable protective clothing and gloves.
S61: Avoid release to the environment. Refer to special instructions / safety data sheets.

Precautionary phrases: Restricted to professional users.

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

Risk phrases used in s.2: R11: Highly flammable.
R38: Irritating to skin.
R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R63: Possible risk of harm to the unborn child.
R65: Harmful: may cause lung damage if swallowed.
R67: Vapours may cause drowsiness and dizziness.
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.