



SAFETY DATA SHEET

A3416

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Revision No: 5

Sent to: HALLMARK FRAULO LTD

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

Product name: A3416

Use / description of product: Adhesive

Company name: Apollo Chemicals Ltd

Sandy Way

Amington Industrial Estate

Tamworth

B77 4DS

UK

Tel: 01827 54281

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2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients: ACETONE 13.800%

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

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

- TOLUENE 3.000%

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

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

- METHYL ETHYL KETONE 20.000%

- MIXED ALIPHATIC HYDROCARBONS 43.700%

[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.

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

Inhalation: Exposure may cause coughing or wheezing. Narcotic effect.

4. FIRST AID MEASURES (ACTION)

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. 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.

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.

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.

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Workplace exposure limits

WEL (8 hr exposure limit): 191mg/m³

WEL (15 min exposure limit): 574mg/m³

Hazardous ingredients: ACETONE

WEL (8 hr exposure limit): 1210 mg/m³ WEL (15 min exposure limit): 3620 mg/m³

- 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: Avoid skin contact. For repeated exposure use Viton or 4H chemical gloves.

Eye protection: Safety goggles.

Skin protection: Wear protective work clothing sufficient to avoid skin contact. Wash hands regularly, before breaks and at the end of the working day.

9. PHYSICAL AND CHEMICAL PROPERTIES

State: Liquid

Colour: Gold-brown

Odour: Characteristic odour

Evaporation rate: Fast

Oxidising: Non-oxidising (by EC criteria)

Solubility in water: Insoluble

Viscosity: Non-viscous

Boiling point/range°C: 56

Flammability limits %: lower: 0.6

upper: 13

Flash point°C: -35

Autoflammability°C: 200

Relative density: 0.79

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: ACETONE

IVN RAT LD50 5500 mg/kg

ORL MUS LD50 3 gm/kg

ORL RAT LD50 5800 mg/kg

- 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

Chronic toxicity: Danger of serious damage to health by prolonged exposure through inhalation.**12. ECOLOGICAL INFORMATION****Mobility:** Volatile.**Persistence and degradability:** Biodegradable in part only.**Bioaccumulative potential:** No data available.**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.



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.
S23: Do not breathe vapour.
S38: In case of insufficient ventilation, wear suitable respiratory equipment.
S33: Take precautionary measures against static discharges.
S36/37: Wear suitable protective clothing and gloves.
S61: Avoid release to the environment. Refer to special instructions / safety data sheets.
S62: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

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.
R36: Irritating to eyes.
R66: Repeated exposure may cause skin dryness or cracking.
R67: Vapours may cause drowsiness and dizziness.
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.
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

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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.