

SAFETY DATA SHEET

A2990 Page 1
Issued: 22/07/2005
Revision No: 1

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

Product name: A2990
Manufactured by: Apollo Chemicals Limited
Use / description of product: Adhesive
Company name:
POLYMARINE LTD
The Round House
Ferry Farm Road
Llandudno Junction
North Wales
LL31 9SG
Tel +44 (0)1492 583322 **Fax** +44 (0)1492 583111
Email info@polymarine.com

2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients: CYCLOHEXANE 10-30%
EINECS: 203-806-2 CAS: 110-82-7
[F] R11; [Xi] R38; [Xn] R65; [-] R67; [N] R50/53
• MIXED ALIPHATIC HYDROCARBONS 10-30%
[F] R11; [Xi] R38; [N] R51/53; [-] R67
• ACETONE 10-30%
EINECS: 200-662-2 CAS: 67-64-1
[F] R11; [Xi] R36; [Xi] R66; [-] R67
• ETHYL METHYL KETONE 10-30%
EINECS: 201-159-0 CAS: 78-93-3
[F] R11; [Xi] R36; [Xi] R66; [-] R67

3. HAZARDS IDENTIFICATION

Main hazards: Highly flammable. Irritating to eyes and skin. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful: may cause lung damage if swallowed.
Repeated exposure may cause skin dryness or cracking. 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. The eyes may water profusely.
Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.
Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

4. FIRST AID MEASURES (ACTION)

Skin contact: Remove from skin with paper or towel. Wash effected area thoroughly with soap and water. Seek medical advice if symptoms persist.
Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.
Ingestion: Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.
Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

SAFETY DATA SHEET

A2990 Page 2

Issued: 22/07/2005

5. FIRE-FIGHTING MEASURES

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

Exposure hazards: Highly flammable. In combustion emits toxic fumes. Forms explosive air-vapour mixture. Vapour may travel considerable distance to source of ignition and flash back.

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: Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. 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. Eliminate all sources of ignition.

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

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Do not use equipment in clean-up procedure which may produce sparks.

7. HANDLING AND STORAGE

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air. Smoking is forbidden. Use non-sparking tools.

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed. Keep away from sources of ignition. Prevent the build up of electrostatic charge in the immediate area. Ensure lighting and electrical equipment are not a source of ignition.

Suitable packaging: Must only be kept in original packing.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Workplace exposure limits

WEL (8 hr exposure limit): 350mg/m³

WEL (15 min exposure limit): 1050mg/m³

Hazardous ingredients: CYCLOHEXANE

WEL (8 hr exposure limit): 350 mg/m³ WEL (15 min exposure limit): 1050 mg/m³

- MIXED ALIPHATIC HYDROCARBONS

WEL (8 hr exposure limit): 1000mg/m³ WEL (15 min exposure limit): 1000MG/M³

- ACETONE

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

- ETHYL METHYL KETONE

WEL (8 hr exposure limit): 600 mg/m³ WEL (15 min exposure limit): 899 mg/m³

SAFETY DATA SHEET

A2990 Page 3

Issued: 22/07/2005

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

Respiratory protection: If exposure levels are likely to be exceeded, use a face mask fitted with an organic AXP3 filter for short term low level exposures. For long term or high level exposures, or when spraying, compressed airline breathing apparatus should be used.

9. PHYSICAL AND CHEMICAL PROPERTIES

State:	Liquid
Colour:	Off-white
Odour:	Characteristic odour
Evaporation rate:	Fast
Oxidising:	Non-oxidising (by EC criteria)
Solubility in water:	Insoluble
Viscosity:	Viscous
Boiling point/range°C:	56
Flammability limits %: lower:	0.6
upper:	13
Flash point°C:	-35
Autoflammability°C:	200
Relative density:	0.82

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions. Stable at room temperature.

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

Materials to avoid: Strong oxidising agents. Strong acids.

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

11. TOXICOLOGICAL INFORMATION

Hazardous ingredients: CYCLOHEXANE
ORL MUS LD50 813 mg/kg
ORL RAT LD50 12705 mg/kg

- MIXED ALIPHATIC HYDROCARBONS
ORL RAT LD50 >5000 mg/kg
- ACETONE
IVN RAT LD50 5500 mg/kg
ORL MUS LD50 3 gm/kg
ORL RAT LD50 5800 mg/kg

Routes of exposure: Refer to section 4 of SDS for routes of exposure and corresponding symptoms.

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.

SAFETY DATA SHEET

A2990 Page 4

Issued: 22/07/2005

14. TRANSPORT INFORMATION

ADR / RID

UN no: 1133

Packing group: II

Shipping name: ADHESIVES

Labelling:

ADR Class: 3

Classification code: F1

3 Hazard ID no: 33

IMDG / IMO

UN no: 1133

Packing group: II

Marine pollutant: .

Class: 3

EmS: F-E,S-D

Labelling: 3

IATA / ICAO

UN no: 1133

Packing group: II

Labelling: 3

Class: 3

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

15. REGULATORY INFORMATION

Hazard symbols: Highly flammable.
Harmful.

Dangerous for the environment.

Risk phrases: R11: Highly flammable.

R36/38: Irritating to eyes and skin.

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65: Harmful: may cause lung damage if swallowed.

R66: Repeated exposure may cause skin dryness or cracking.

R67: Vapours may cause drowsiness and dizziness.

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

S23: Do not breathe vapour.

S38: In case of insufficient ventilation, wear suitable respiratory equipment.

S9: Keep container in a well-ventilated place.

S16: Keep away from sources of ignition - No smoking.

S33: Take precautionary measures against static discharges.

S61: Avoid release to the environment. Refer to special instructions / safety data sheets.

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.

R65: Harmful: may cause lung damage if swallowed.

R67: Vapours may cause drowsiness and dizziness.

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

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R36: Irritating to eyes.

R66: Repeated exposure may cause skin dryness or cracking.

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.

[final page]

