

1. Identification of the substance/preparation and of the company/undertaking

Product name Hysol AL
SDS # UK-7041, NL-7048, BE-7048, DE-17125
Product Use Metalworking fluid - soluble.

Supplier Castrol (U.K.) Limited
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2. Composition/information on ingredients

Highly refined mineral oil, emulsifiers and additives.

Chemical name	CAS no.	%	EINECS / ELINCS.	Classification
tall oil, compd. with diethanolamine.	68092-28-4	5 - 10	268-452-3	Xi; R36/38
Ethanediol	107-21-1	1 - 5	203-473-3	Xn; R22
N,N'-Methylenebis(morpholine)	5625-90-1	1 - 5	227-062-3	Xn; R20/21/22 Xi; R36/37/38
alcohols, C11-14-iso-,C13-rich	68526-86-3	1 - 5	271-235-6	N; R50

See Section 16 for the full text of the R Phrases declared above

Occupational Exposure Limit(s), if available, are listed in Section 8

3. Hazards identification

This preparation is not classified as dangerous according to Directive 1999/45/EC as amended and adapted.

Effects and symptoms

Eyes May cause eye irritation.
Skin Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis.
Inhalation Vapors and aerosol can produce mucous membrane, nose and throat irritation.
Ingestion Ingestion may cause gastrointestinal irritation and diarrhoea.

4. First-aid measures

Eye Contact In case of contact, immediately flush eyes with a copious amount of water for at least 15 minutes. Get medical attention if irritation occurs.
Skin contact Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if irritation develops.
Inhalation If inhaled, remove to fresh air. Get medical attention if symptoms appear.
Ingestion Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately.

5. Fire-fighting measures

Extinguishing Media

Suitable In case of fire, use water fog, foam, dry chemical or CO2 extinguisher or spray.
Not Suitable Do not use water jet.

Hazardous decomposition products

These products are carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂...). Some metallic oxides.

Unusual fire/explosion Hazards

This material is not explosive as defined by established regulatory criteria.

Special fire-fighting procedures

None identified.

Protection of fire-fighters

Fire fighters should wear self-contained positive pressure breathing apparatus (SCBA) and full turnout gear.

6. Accidental release measures**Personal Precautions**

Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Follow all fire fighting procedures (Section 5).

Environmental precautions and cleanup methods

If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) scoop up material and place in a sealed, liquid-proof container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal. Minimize contact of spilled material with soils to prevent runoff to surface waterways. See Section 13 for Waste Disposal Information.

Personal Protection in Case of a Large Spill

Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

7. Handling and storage**Handling** Avoid breathing vapour or mist. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling.**Storage** Keep container tightly closed. Protect from freezing. Store away from direct sunlight.**8. Exposure controls/personal protection****Ingredient Name****Occupational Exposure Limits**

Ethanediol

EH40-OES (United Kingdom (UK), 2002). SkinSTEL: 104 mg/m³ 15 minute(s). Form: VapourTWA: 10 mg/m³ 8 hour(s). Form: ParticulateTWA: 52 mg/m³ 8 hour(s). Form: Vapour

Highly refined mineral oil

EH40-OES (United Kingdom (UK)).TWA: 5 mg/m³ 8 hour(s). Form: Oil mist, mineralSTEL: 10 mg/m³ 15 minute(s). Form: Oil mist, mineral

Highly refined mineral oil

EH40-OES (United Kingdom (UK)).TWA: 5 mg/m³ 8 hour(s). Form: Oil mist, mineralSTEL: 10 mg/m³ 15 minute(s). Form: Oil mist, mineral

Highly refined mineral oil

EH40-OES (United Kingdom (UK)).TWA: 5 mg/m³ 8 hour(s). Form: Oil mist, mineralSTEL: 10 mg/m³ 15 minute(s). Form: Oil mist, mineral

This product contains a preservative that may release trace amounts of formaldehyde during use.

Control Measures

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits. Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

Hygiene measures

After handling, always wash hands thoroughly with soap and water.

Personal protective equipment**Respiratory system**

None required; however, use of adequate ventilation is good industrial practice.

Skin and body

Wear protective clothing if prolonged or repeated contact is likely.

Hands

Wear protective gloves if prolonged or repeated contact is likely.

Eyes

Safety glasses with side shields.

9. Physical and chemical properties**Flash point** >100 °C (CLOSED CUP)**Colour** Amber.**Odour** Sweet.**Odour threshold** Not available.**Physical state** Liquid.**Boiling point / range** >100 °C

Density	<1 g/cm ³
Solubility	Emulsifies in water.
pH	8.9 (Basic.) at 5%
Dispersion Properties	See solubility in water.

10. Stability and reactivity

Conditions to Avoid	High temperatures
Incompatibility with Various Substances	Reactive with oxidizing agents. Slightly reactive to reactive with acids.
Hazardous Polymerization	Will not occur.

11. Toxicological information

Chronic toxicity

Carcinogenic effects	No component of this product at levels greater than 0.1% is identified as a carcinogen by ACGIH, the International Agency for Research on Cancer (IARC) or the European Commission (EC).
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12. Ecological information

Persistence/degradability	Inherently biodegradable
Mobility	Liquid. Emulsifies in water.
Environmental hazards	Not classified as dangerous.

13. Disposal considerations

Disposal Consideration / Waste information	Avoid contact of spilled material and runoff with soil and surface waterways. Consult an environmental professional to determine if local, regional or national regulations would classify spilled or contaminated materials as hazardous waste. Use only approved transporters, recyclers, treatment, storage or disposal facilities.
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14. Transport information

Not classified as hazardous for transport (ADR, RID, UN , IMO, IATA/ICAO).

15. Regulatory information

Label Requirements

Risk Phrases	This product is not classified according to the EU regulations.
Restrictions to product use	Classification and labelling have been performed according to EU directives 1999/45/EC and 67/548/EEC as amended and adapted. - Industrial applications.
EU Regulations	Classification and labelling have been performed according to EU directives 1999/45/EC and 67/548/EEC as amended and adapted.

Other Regulations

Inventories	AUSTRALIAN INVENTORY (AICS): Not determined.
	CANADA INVENTORY (DSL): Not determined.
	CHINA INVENTORY (IECS): Not determined.
	EC INVENTORY (EINECS): In compliance.
	JAPAN INVENTORY (ENCS): Not determined.
	KOREA INVENTORY (ECL): Not determined.
	PHILIPPINE INVENTORY (PICCS): Not determined.
	US INVENTORY (TSCA): Not determined.

16. Other information

Full text of R-phrases appearing in section 2

R20/21/22- Harmful by inhalation, in contact with skin and if swallowed.
R22- Harmful if swallowed.
R36/37/38- Irritating to eyes, respiratory system and skin.
R36/38- Irritating to eyes and skin.
R50- Very toxic to aquatic organisms.

HISTORY

Date of issue 02/12/2002.
Date of previous issue No Previous Validation.
Prepared by Product Stewardship

Notice to Reader

The data and advice given apply when the product is sold for the stated application or applications. The product is not sold as suitable for any other application. Use of the product for applications other than as stated in this sheet may give rise to risks not mentioned in this sheet. You should not use the product other than for the stated application or applications without seeking advice from us.

If you have purchased the product for supply to a third party for use at work, it is your duty to take all necessary steps to secure that any person handling or using the product is provided with the information in this sheet.

If you are an employer, it is your duty to tell your employees and others who may be affected of any hazards described in this sheet and of any precautions which should be taken.

Further copies of this Safety Data Sheet may be obtained from Castrol.