

SAFETY DATA SHEET

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PRINT DATE: 06/08/1997

REF: ULL200D

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

Product name: ULTRALUBE
Product code: ULL200D
Supplier: ELECTROLUBE
H.K. Wentworth Ltd.,
Wentworth House, Blakes Road,
Wargrave, Berkshire, RG10 8AW, United Kingdom.
Emergency telephone number: 0118 9404031 **Fax No:** 0118 9403084

2. COMPOSITION/INFORMATION ON INGREDIENTS

Identification of the preparation

Chemical Name	CAS-No	EEC-No	Class	Weight %
~PENTANE~	109-66-0	203-692-4	F; R11 (Sweden: V; R320/322, R313)	< 60
1,1,1,2-TETRAFLUOROETHANE (134a)	811-97-2	213-377-0		< 30
1,1-DICHLOROETHANE (152a)	75-37-6	200-866-1	F+; R12	< 10
NON HAZARDOUS CONSTITUENTS				< 10

3. HAZARDS IDENTIFICATION

Most important hazards: Highly flammable
Specific hazards: High concentration of vapours may cause irritation to eyes and respiratory system and produce narcotic effects. Prolonged skin contact may defat the skin and produce dermatitis.

4. FIRST AID MEASURES

General advice: Remove from exposure, lie down.
Inhalation: Move to fresh air. Consult a physician after significant exposure.
Skin contact: Wash off immediately with soap and plenty of water. Treatment : skin cream.
Eye contact: Rinse immediately with plenty of water for at least 15 minutes. Consult a physician for severe cases.
Ingestion: Immediately give large quantities of water to drink. If symptoms persist, call a physician.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Extinguish with dry chemical or foam, carbon dioxide (CO₂).

Extinguishing media which must not be used for safety reasons:

Do not use water jet.

Specific hazards: Fire or intense heat may cause violent rupture of packages. Water mist may be used to cool closed containers.

Special protective equipment for firefighters:

In the event of fire, wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Remove all sources of ignition.

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Environmental precautions: Do not contaminate surface water.
Methods for cleaning up: Soak up with inert absorbent material. Shovel into suitable container for disposal.

7. HANDLING AND STORAGE

Handling: Use only in well-ventilated areas. Do not breath vapours or spray mist. When using, do not eat, drink or smoke.
Storage: Store in a cool and shaded area. Ensure adequate ventilation. Keep away from heat and sources of ignition.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name:	National occupational exposure limits:
~PENTANE~	Long term (8 hrs) = 600ppm / 1800mgm ⁻³ Short term (15 min) = 750ppm / 2250mgm ⁻³
1,1,1,2-TETRAFLUOROETHANE (134a)	Long term (8 hrs) = 1000ppm / 4200mg/m ⁻³
1,1-DICHLOROETHANE (152a)	Long term (8 hrs) = 1000ppm
NON HAZARDOUS CONSTITUENTS	

Engineering measures

Ensure adequate ventilation, especially in confined areas.

Personal protection equipment:

- **Respiratory protection:** not required under normal use.
- **Hand protection:** solvent-resistant gloves (butylrubber)
- **Eye protection:** safety glasses
- **Skin and body protection:** not required under normal use

Hygiene measures:

When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	liquid		
Colour:	colourless		
Odour:	characteristic		
Boiling point/range:	36		°C
Melting point/range:	<-130		°C
Flash point:	-48		°C
Autoignition temperature:	309		°C
Explosion limits:	- lower	1.4	vol. %
	- upper	7.8	vol. %
Vapour pressure:	(19 °C)	533.2	hPa
Relative density:	(20 °C)	>= 0.646	
Bulk density:		646	kg/m3
Solubility:			
Water solubility	(20 °C)	immiscible	(g/l)

10. STABILITY AND REACTIVITY

Stability: Stable. Vapour/air-mixtures are explosive at intense warming.
Conditions to avoid: Do not spray on a naked flame or any other incandescent material.
Materials to avoid: oxidizing agents
Hazardous decomposition products: none under normal use.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: (152a) LC50/inhalation/2h/rat = >200ml/l
(134a) ALC/inhalation/4h/rat = 567ml/l

Local effects: Prolonged skin contact may defat the skin and produce dermatitis

Sensitization: Not applicable

Long term toxicity:

Chronic toxicity:

12. ECOLOGICAL INFORMATION

Mobility: No data is available on the product itself

Persistence and degradability: Readily biodegradable, according to appropriate OECD test

Bioaccumulation: Not applicable

Ecotoxicity effects: No data is available on the product itself

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products: In accordance with local and national regulations.

Contaminated packaging: Do not pierce or burn even when empty

14. TRANSPORT INFORMATION

UN-No:	1950	Marine pollutant:	NO
ADR/RID			
Class:	2	Item:	5° F
		HI/UN No:	1950
Proper shipping name:	Aerosol dispensers		
IMO			
Class:	2	IMDG Page:	2102
EmS:	2-13	MFAG:	620
Proper shipping name:	Aerosol dispensers		
ICAO			
Class:	2.1	UN/ID No:	1950
Proper shipping name	Aerosols, flammable, n.o.s		

15. REGULATORY INFORMATION

Classification according to European directive on classification of hazardous preparations 90/492/EEC

- Contains:
- Symbol(s):



F - Highly flammable

R-phrases(s): R11 - Highly flammable.

S-phrases(s): S3 - Keep in a cool place.. S9 - Keep container in a well-ventilated place.. S16 - Keep away from sources of ignition - No smoking. S33 - Take precautionary measures against static discharges..

16. OTHER INFORMATION

Recommended use:

Recommended restrictions:

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Revision number: 1
Further information: CN no. 38140090
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Department: Technical

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