



**SAFETY DATA SHEET**  
**FLUXCLENE CLEANING SOLVENT (Combi)**

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

**PRODUCT NAME** FLUXCLENE CLEANING SOLVENT (Combi)  
**PRODUCT NO.** EFLU400DB  
**APPLICATION** Manufacture of electrical equipment  
**SUPPLIER** ELECTROLUBE. A division of  
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**2 HAZARDS IDENTIFICATION**

Highly flammable.

Vapours may cause drowsiness and dizziness.

Irritating to skin.

May cause sensitisation by skin contact.

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

**CLASSIFICATION** Xi;R38. R43. F;R11. N;R50/53. R67.

**PHYSICAL AND CHEMICAL HAZARDS**

Aerosol containers can explode when heated, due to excessive pressure build-up. When sprayed on a naked flame or any incandescent material the aerosol vapours can be ignited.

**3 COMPOSITION/INFORMATION ON INGREDIENTS**

Name	EC No.	CAS-No.	Content	Classification
CYCLOHEXANE	203-806-2	110-82-7	30-60%	F;R11 Xn;R65 Xi;R38 R67 N;R50/53
PROPAN-2-OL	200-661-7	67-63-0	10-30%	F;R11 Xi;R36 R67
1-METHOXY-2-PROPANOL	203-539-1	107-98-2	10-30%	R10
d-LIMONENE	227-813-5	5989-27-5	1-5%	R10 R43 Xi;R38 N;R50/53
HEXANE MIXTURE OF ISOMERS (MAX 5% n-HEXANE (203-777-6))			1-5%	F;R11 Xn;R65 Xi;R38 R67 N;R51/53
HEPTANE	205-563-8	142-82-5	1-5%	F;R11 Xn;R65 Xi;R38 R67 N;R50/53
HEXANE-norm	203-777-6	110-54-3	< 1%	F;R11 Repr3;R62 Xn;R65,R48/20 Xi;R38 R67 N;R51/53

The Full Text for all R-Phrases are Displayed in Section 16

**COMPOSITION COMMENTS**

Ingredients not listed are classified as non-hazardous or at a concentration below reportable levels

**4 FIRST-AID MEASURES**

**NOTES TO THE PHYSICIAN**

Treat symptomatically

**FLUXCLENE CLEANING SOLVENT (Combi)****INHALATION**

Move the exposed person to fresh air at once. Keep the affected person warm and at rest. Get prompt medical attention.

Get medical attention.

**INGESTION**

Not relevant.

**SKIN CONTACT**

Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

**EYE CONTACT**

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

**5 FIRE-FIGHTING MEASURES****EXTINGUISHING MEDIA**

Use: Powder. Dry chemicals, sand, dolomite etc. Water spray, fog or mist.

**SPECIAL FIRE FIGHTING PROCEDURES**

Move container from fire area if it can be done without risk.

**UNUSUAL FIRE & EXPLOSION HAZARDS**

Aerosol cans may explode in a fire.

**6 ACCIDENTAL RELEASE MEASURES****SPILL CLEAN UP METHODS**

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Absorb in vermiculite, dry sand or earth and place into containers.

**7 HANDLING AND STORAGE****USAGE PRECAUTIONS**

Avoid spilling, skin and eye contact. Provide good ventilation.

**STORAGE PRECAUTIONS**

Store at moderate temperatures in dry, well ventilated area.

**8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
		ppm(Sk)	mg/m3(Sk)	ppm(Sk)	mg/m3(Sk)	
1-METHOXY-2-PROPANOL	WEL	100 ppm(Sk)	375 mg/m3(Sk)	150 ppm(Sk)	560 mg/m3(Sk)	
CYCLOHEXANE	WEL	100 ppm	350 mg/m3	300 ppm	1050 mg/m3	
HEPTANE	WEL	500 ppm				
PROPAN-2-OL	WEL	400 ppm	999 mg/m3	500 ppm	1250 mg/m3	

WEL = Workplace Exposure Limit.

**PROTECTIVE EQUIPMENT****EYE PROTECTION**

Wear approved, tight fitting safety glasses where splashing is probable.

**OTHER PROTECTION**

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

**HYGIENE MEASURES**

Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke. **DO NOT SMOKE IN WORK AREA!**

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#### 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE</b>	Aerosol Liquid		
<b>COLOUR</b>	Colourless		
<b>ODOUR</b>	Characteristic Lemon		
<b>VOLATILITY DESCRIPTION</b>	Volatile.		
<b>SOLUBILITY</b>	Insoluble in water		
<b>BOILING POINT (°C)</b>	>80 (176 F)	<b>MELTING POINT (°C)</b>	<-29 (-20.2 F)
<b>RELATIVE DENSITY</b>	0.780 @ 20 °c (68 F)	<b>VAPOUR PRESSURE</b>	11.52 kPa @ 20 °c (68 F)
<b>FLASH POINT (°C)</b>	0 (32 F) CC (Closed cup).	<b>AUTO IGNITION TEMPERATURE (°C)</b>	> 200 (392 F)
<b>FLAMMABILITY LIMIT - LOWER(%)</b>	0.6	<b>FLAMMABILITY LIMIT - UPPER(%)</b>	8.3

#### 10 STABILITY AND REACTIVITY

##### STABILITY

Stable under normal temperature conditions.

##### CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition. Avoid contact with acids and alkalies.

#### 11 TOXICOLOGICAL INFORMATION

##### INHALATION

Vapours may cause headache, fatigue, dizziness and nausea. High concentrations of vapours may irritate respiratory system and lead to headache, fatigue, nausea and vomiting.

##### SKIN CONTACT

May cause sensitisation by skin contact. Prolonged or repeated exposure may cause severe irritation. Product has a defatting effect on skin. Prolonged contact may cause dryness of the skin.

##### EYE CONTACT

Irritating to eyes.

##### Other Health Effects

This substance has no evidence of carcinogenic properties.

##### ROUTE OF ENTRY

Skin and/or eye contact. Inhalation.

<b>Name</b>	HEPTANE
<b>Toxic Dose 1 - LD 50</b>	222 mg/kg (ivn-mouse)
<b>Toxic Conc. - LC 50</b>	103 ppm/4h (inh-rat)
<b>Name</b>	CYCLOHEXANE
<b>Toxic Dose 1 - LD 50</b>	12705 mg/kg (oral rat)
<b>Toxic Dose 2 - LD 50</b>	813 mg/kg (oral-mouse)
<b>Name</b>	HEXANE-norm
<b>Toxic Dose 1 - LD 50</b>	28700 mg/kg (oral rat)
<b>Toxic Conc. - LC 50</b>	48000 ppm/4h (inh-rat)
<b>Name</b>	PROPAN-2-OL
<b>Toxic Dose 1 - LD 50</b>	5045 mg/kg (oral rat)
<b>Toxic Dose 2 - LD 50</b>	3600 mg/kg (oral-mouse)
<b>Toxic Conc. - LC 50</b>	47-73 mg/l/4h (inh-rat)
<b>Name</b>	1-METHOXY-2-PROPANOL
<b>Toxic Dose 1 - LD 50</b>	5200 mg/kg (oral rat)
<b>Toxic Dose 2 - LD 50</b>	11700 mg/kg (oral-mouse)
<b>Name</b>	d-LIMONENE
<b>Toxic Dose 1 - LD 50</b>	>5000 mg/kg (oral rat)

#### 12 ECOLOGICAL INFORMATION

##### ECOTOXICITY

Dangerous for the environment if discharged into watercourses.

**FLUXCLENE CLEANING SOLVENT (Combi)**

<b>Name</b>	HEPTANE
<b>LC 50, 96 Hrs, FISH mg/l</b>	4.924
<b>Name</b>	CYCLOHEXANE
<b>LC 50, 96 Hrs, FISH mg/l</b>	42.3
<b>Name</b>	PROPAN-2-OL
<b>LC 50, 96 Hrs, FISH mg/l</b>	9600
<b>EC 50, 48 Hrs, DAPHNIA, mg/l</b>	10000
<b>Name</b>	1-METHOXY-2-PROPANOL
<b>LC 50, 96 Hrs, FISH mg/l</b>	20800
<b>EC 50, 48 Hrs, DAPHNIA, mg/l</b>	23300
<b>Name</b>	d-LIMONENE
<b>EC 50, 48 Hrs, DAPHNIA, mg/l</b>	12.3
<b>Mobility</b>	

The product has poor water-solubility.

**13 DISPOSAL CONSIDERATIONS**

**DISPOSAL METHODS**

Dispose of waste and residues in accordance with local authority requirements. Empty containers must not be burned because of explosion hazard.

**14 TRANSPORT INFORMATION**



<b>UK ROAD CLASS</b>	2		
<b>PROPER SHIPPING NAME</b>	AEROSOLS		
<b>UN NO. ROAD</b>	1950	<b>UK ROAD PACK GR.</b>	N/A
<b>ADR CLASS NO.</b>	2	<b>ADR CLASS</b>	Class 2: Gases
<b>ADR PACK GROUP</b>	N/A	<b>ADR LABEL NO.</b>	2.1
<b>CEFIC TEC(R) NO.</b>	20G5F	<b>RID CLASS NO.</b>	2
<b>RID PACK GROUP</b>	N/A	<b>UN NO. SEA</b>	1950
<b>IMDG CLASS</b>	2.1	<b>IMDG PAGE NO.</b>	2.1
<b>IMDG PACK GR.</b>	N/A	<b>EMS</b>	F-D, S-U
<b>MFAG</b>	See Guide	<b>MARINE POLLUTANT</b>	No.
<b>UN NO. AIR</b>	1950	<b>AIR CLASS</b>	2.1
<b>AIR PACK GR.</b>	N/A		

**15 REGULATORY INFORMATION**

**SYMBOLS**



Irritant



Highly Flammable



Dangerous for the environment

**CONTAINS**

d-LIMONENE

**RISK PHRASES**

R11	Highly flammable.
R38	Irritating to skin.
R43	May cause sensitisation by skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### FLUXCLENE CLEANING SOLVENT (Combi)

R67 Vapours may cause drowsiness and dizziness.

#### SAFETY PHRASES

A1 Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.  
A2 Do not spray on a naked flame or any incandescent material.  
S2 Keep out of the reach of children  
S9 Keep container in a well-ventilated place.  
S16 Keep away from sources of ignition - No smoking.  
S23 Do not breathe vapour/spray.  
S24 Avoid contact with skin.  
S37 Wear suitable gloves.  
S38 In case of insufficient ventilation, wear suitable respiratory equipment.  
S51 Use only in well-ventilated areas.

#### UK REGULATORY REFERENCES

Chemicals (Hazard Information & Packaging) Regulations.

The Control of Substances Hazardous to Health Regulations 1988.

#### ENVIRONMENTAL LISTING

Rivers (Prevention of Pollution) Act 1961. Control of Pollution Act 1974.

#### EU DIRECTIVES

System of specific information relating to Dangerous Preparations. 2001/58/EC.

Dangerous Substance Directive 67/548/EEC.

Dangerous Preparations Directive 1999/45/EC.

Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

#### GUIDANCE NOTES

Workplace Exposure Limits EH40.

### 16 OTHER INFORMATION

#### REVISION COMMENTS

Revised in accordance with CHIP3 and EU Directives 1999/45/EC and 2001/58/EC

#### ISSUED BY

Helen O'Reilly

#### REVISION DATE

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3

#### GENERATED

#### SDS NO.

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### FLUXCLENE CLEANING SOLVENT (Combi)

#### RISK PHRASES IN FULL

R10	Flammable.
R11	Highly flammable.
R36	Irritating to eyes.
R38	Irritating to skin.
R43	May cause sensitisation by skin contact.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
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.
R62	Possible risk of impaired fertility.
R65	Harmful: may cause lung damage if swallowed.
R67	Vapours may cause drowsiness and dizziness.

#### DISCLAIMER

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