

SAFETY DATA SHEET

ISOPROPANOL CLEANING FLUID

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME ISOPROPANOL CLEANING FLUID
 PRODUCT NO. EIPA01L/ 05L
 SUPPLIER ELECTROLUBE. A division of HK
 WENTWORTH LTD
 KINGSBURY PARK, MIDLAND ROAD
 SWADLINCOTE
 DERBYSHIRE, DE11 0AN
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 +44(0)1283 550 177

2 COMPOSITION/INFORMATION ON INGREDIENTS

| Name | EC No. | CAS-No. | Content | Classification |
|-------------|-----------|---------|---------|------------------|
| PROPAN-2-OL | 200-661-7 | 67-63-0 | 60-100% | F;R11 Xi;R36 R67 |

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

3 HAZARDS IDENTIFICATION

Highly flammable. Irritating to eyes. Vapours may cause drowsiness and dizziness.

CLASSIFICATION Xi;R36. F;R11. R67.

4 FIRST-AID MEASURES

INHALATION

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

INGESTION

DO NOT INDUCE VOMITING! Rinse mouth thoroughly. Get medical attention.

SKIN CONTACT

Promptly wash contaminated skin with soap or mild detergent and water. Promptly remove clothing if soaked through and wash as above. Get medical attention if irritation persists after washing.

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: Alcohol resistant foam. Powder. Dry chemicals, sand, dolomite etc.

SPECIAL FIRE FIGHTING PROCEDURES

Move container from fire area if it can be done without risk. Use water to keep fire exposed containers cool and disperse vapours.

6 ACCIDENTAL RELEASE MEASURES

SPILL CLEAN UP METHODS

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

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact.

STORAGE PRECAUTIONS

Flammable/combustible - Keep away from oxidisers, heat and flames. Store in tightly closed original container in a cool, dry well-ventilated place. Keep in original container.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ISOPROPANOL CLEANING FLUID

| Name | Std | LT - ppm | LT - mg/m3 | ST - ppm | ST - mg/m3 |
|-------------|-----|----------|------------|----------|------------|
| PROPAN-2-OL | WEL | 400 ppm | 999 mg/m3 | 500 ppm | 1250 mg/m3 |

INGREDIENT COMMENTS

WEL = Workplace Exposure Limits

PROTECTIVE EQUIPMENT



ENGINEERING MEASURES

All handling to take place in well-ventilated area.

RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Recommended Workplace Exposure Limit.

HAND PROTECTION

Use protective gloves. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

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

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap & water if skin becomes contaminated. When using do not eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|-------------------------------|------------------|--------------------------------|------------------|
| APPEARANCE | Liquid | | |
| BOILING POINT (°C) | 82 | RELATIVE DENSITY | 0.790 @ 20 °c |
| VAPOUR DENSITY (air=1) | 2.8 | VAPOUR PRESSURE | 4.16 kPa @ 20 °c |
| EVAPORATION RATE | 2.93 | VISCOSITY | 3.06 cSt @ 20 °c |
| FLASH POINT (°C) | 0 OC (Open cup). | AUTO IGNITION TEMPERATURE (°C) | 399 |
| FLAMMABILITY LIMIT - LOWER(%) | 2.50 | FLAMMABILITY LIMIT - UPPER(%) | 12.70 |

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions.

CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition.

MATERIALS TO AVOID

Strong oxidising substances.

11 TOXICOLOGICAL INFORMATION

| | |
|----------------------|-------------------------|
| TOXIC DOSE 1 - LD 50 | 1 4700 mg/kg (oral rat) |
| TOXIC CONC. - LC 50 | 46.5 mg/l/4h (inh-rat) |

INHALATION

May cause irritation to the respiratory system.

INGESTION

May cause stomach pain or vomiting.

SKIN CONTACT

Prolonged contact may cause dryness of the skin. Acts as a defatting agent on skin. May cause cracking of skin, and eczema.

EYE CONTACT

Irritating to eyes.

ROUTE OF ENTRY

Skin absorption. Ingestion. Skin and/or eye contact.

TARGET ORGANS

Central nervous system. Eyes. Respiratory system, lungs. Skin.

ISOPROPANOL CLEANING FLUID**MEDICAL SYMPTOMS**

Irritation of eyes and mucous membranes. Dilated pupils. Rhinitis (inflammation of the nasal mucous membranes). Upper respiratory irritation. General respiratory distress, unproductive cough. Skin irritation. Central nervous system depression. Drowsiness, dizziness, disorientation, vertigo.

12 ECOLOGICAL INFORMATION**ECOTOXICITY**

Not regarded as dangerous for the environment.

LC 50, 96 Hrs, FISH mg/l 9600

IC 50, 72 Hrs, ALGAE, mg/l 1800

13 DISPOSAL CONSIDERATIONS**DISPOSAL METHODS**

Dispose of waste and residues in accordance with local authority requirements. Absorb in vermiculite or dry sand, dispose in licensed special waste.

14 TRANSPORT INFORMATION

| | | | |
|----------------------|---------------------------------|------------------|-----------------------------|
| UK ROAD CLASS | 3 | | |
| PROPER SHIPPING NAME | ISOPROPANOL (ISOPROPYL ALCOHOL) | | |
| UN NO. ROAD | 1219 | UK ROAD PACK GR. | II |
| ADR CLASS NO. | 3 | ADR CLASS | Class 3: Flammable liquids. |
| ADR PACK GROUP | II | HAZARD No. (ADR) | 33 |
| ADR LABEL NO. | 3 | HAZCHEM CODE | 2YE |
| CEFIC TEC(R) NO. | 30GF1-I+II | RID CLASS NO. | 3 |
| RID PACK GROUP | II | UN NO. SEA | 1219 |
| IMDG CLASS | 3 | IMDG PAGE NO. | 3244 |
| IMDG PACK GR. | II | EMS | F-E; S-D |
| MFAG | See Guide | MARINE POLLUTANT | No. |
| UN NO. AIR | 1219 | ICAO CLASS | 3 |
| AIR PACK GR. | II | | |

15 REGULATORY INFORMATION**LABELLING**

Irritant



Highly Flammable

RISK PHRASES

| | |
|-----|---|
| R11 | Highly flammable. |
| R36 | Irritating to eyes. |
| R67 | Vapours may cause drowsiness and dizziness. |

SAFETY PHRASES

| | |
|-----|---|
| S16 | Keep away from sources of ignition - No smoking. |
| S25 | Avoid contact with eyes. |
| S26 | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. |
| S51 | Use only in well-ventilated areas. |

UK REGULATORY REFERENCES

Chemicals (Hazard Information & Packaging) Regulations.

ENVIRONMENTAL LISTING

Rivers (Prevention of Pollution) Act 1961. Control of Pollution (Special Waste Regulations) Act 1980. Control of Pollution Act 1974.

ISOPROPANOL CLEANING FLUID

EU DIRECTIVES

System of specific information relating to Dangerous Preparations. 2001/58/EEC. Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EEC.

APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations.

GUIDANCE NOTES

Workplace Exposure Limits EH40.

16 OTHER INFORMATION

GENERAL INFORMATION

CN No 38140090

REVISION COMMENTS

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

ISSUED BY

Helen O'Reilly

REVISION DATE

SEPTEMBER 2005

REV. NO./REPL. SDS GENERATED

2

SDS NO.

10512

RISK PHRASES IN FULL

| | |
|-----|---|
| R11 | Highly flammable. |
| R36 | Irritating to eyes. |
| R67 | Vapours may cause drowsiness and dizziness. |

DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.