

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

Product Name : ElectricalCleaner
 Product Code : EC 503
 Use/Description of Product : DC Electrical Contact Cleaner
 Company Name : Rotec Industries
 Unit 3a, Broad Oak
 Redbrook Maelor
 Whitchurch
 Shropshire
 SY13 3AQ
 Telephone : 01948 780 111
 Fax : 01948 780 115
 Emergency Telephone No : 01948 780111 / 07768 271691

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients :					
Substance Name	EINECS No.	CAS No.	% Conc Range	Hazard Symbols	Risk Phrases
PROPAN-2-OL	200-661-7	67-63-0	50 – 70	Xi, F, -,	36-11-67
PROPANE	200-827-9	74-28-5	10 – 30	F+	12
ISOBUTANE	200-857-2	75-28-5	01 – 10	F+	12
BUTANE	203-448-7	106-97-8	01 - 10	F+	12

3. HAZARD IDENTIFICATION

Classifications : F – Extremely Flammable. Irritating to eyes
 Vapours may cause drowsiness and dizziness.
 Other Hazards : In use may form flammable / explosive vapour/air mixture.

4. FIRST AID MEASURES (SYMPTOMS) part 1

Skin Contact : There may be irritation and redness at the site of contact.
 Eye Contact : There may be irritation and/or redness. Eyes may water
 Profusely.
 Ingestion : There may be soreness and redness of the mouth and throat.
 Inhalation : There may be irritation of the throat with a feeling of
 tightness in the chest. Exposure may cause coughing or
 wheezing

4. FIRST AID MEASURES (ACTIONS) part 2

General
 In all cases of doubt or when symptoms persist seek medical attention. Never give anything by mouth to an unconscious person.

Skin Contact
 Remove contaminated clothing unless stuck to the skin. Wash immediately with plenty of soap and water.

Eye Contact
 Irrigate copiously with clean, fresh water for at least 15 minutes. Consult a Doctor.

Ingestion
 Wash out mouth with water. Consult a Doctor.

Inhalation
 Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is correct, place in the recovery position. If conscious, ensure the casualty sits or lies down. Consult a Doctor.

5. FIRE-FIGHTING MEASURES

Extinguishing Media	:	Alcohol resistant foam. Water spray. Carbon Dioxide. Dry chemical powder. Use water spray to cool containers.
Protection of Fire-fighters	:	Wear self contained breathing apparatus. Wear protective clothing to prevent contact with skin.
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.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	:	Refer to section 8 of SDS for personal protection details. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access by unauthorised personnel. Turn leaking containers leak side up to prevent escape of liquid,. Eliminate all sources of ignition.
Environmental Precautions	:	Do not discharge into drains or rivers. Contain spillage with bunding.
Clean-up Procedures	:	Absorb into dry earth or sand. Transfer to closable, labelled salvage container for disposal by appropriate method. Do not use equipment in clean-up procedure which may Produce sparks.

7. HANDLING AND STORAGE

Handling requirements	:	Avoid direct contact with 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 a 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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ingredients :

Substance Name	Occupational Exposure Limit				Notation
	15 min WEL		8 hr WEL		
	ppm	Mg/m3	ppm	Mg/m3	
PROPAN-2-OL	500.00	1250.00	400.00	999.00	OES
BUTANE		1810.00		1450.00	

General Engineering Measures

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

Respiratory Protection

Self contained breathing apparatus must be available in case of emergency.

Hand Protection

Protective Gloves

Eye protection

Eye protection designed to protect against liquid splashes should be worn. Ensure eye bath is to hand.

Skin Protection

Protective clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	:	Aerosol
Colour	:	Colourless
Odour	:	Slight Alcoholic Solvent Smell
Evaporation Rate	:	Fast
Solubility in Water	:	Insoluble
Flash Point C	:	-2 deg C
Oxidising	:	Non-oxidising (by EC criteria)

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 Avoids	:	Strong oxidising agents. Strong Acids
Haz Decomp. Products	:	In combustion emits toxic fumes.

11. TOXICOLOGICAL INFORMATION

Hazardous ingredients	:	PROPAN-2-OL IVN RAT LD50 1088mg/kg ORL MUS LD50 3600 mg/kg ORL RAT LD50 5045 mg/kg SCU MUS LDLO 6gm/kg
Routes of exposure	:	Refer to section 4 of SDS for routes of exposure and Corresponding symptoms

12. ECOLOGICAL INFORMATION

Mobility	:	Readily absorbed in soil
Persistence and Degradability	:	Biodegradable
Bioaccumulative potential	:	No bioaccumulation potential
Other adverse effects	:	Negligibly ecotoxicity

13. DISPOSAL INFORMATION

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. TRANSPORT INFORMATION

Road/Rail	:UN No.....1950 Designation.....Aerosols	Packing Group...2.1	Class.....2.
Sea	:Packing Grp. <= 30 lts.....III Marine Pollutant.....No EMS.....2-13 Main Risk.....FLAMMABLE Shipping Name.....Flammable, .	Packing Grp. > 30 lts.....2.1 UN No.....1950 MFAG.....303	Class.....2.
Air	:Packing grp. <= 30 lts.....III UN Number.....1950	Packing Grp. > 30 lts.....2.1	Class.....2.
International Road/Rail	:Item Number..... Main Risk.....FLAMMABLE Shipping Name.....Flammable	UN Number.....1950	Class..... 2. Sub Risk :

15. REGULATORY INFORMATION

The product is classified and labelled for supply in accordance with the Chemicals (Hazard Information & Packaging) Regulations as follows:



Classifications	:	Extremely Flammable . Irritant
Risk Phrases	:	12 Extremely Flammable 36 Irritating to Eyes. 67 Vapours may cause Drowsiness or Dizziness..
Safety Phrases	:	16 Keep away from sources of ignition – No Smoking 23 Do not breathe spray. 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. 38 In case of insufficient ventilation, wear suitable respiratory equipment 51 Use only in well ventilated areas. 60 The material and its container must be disposed of as hazardous Waste.
P Phrases	:	Pressurized container: protect from sunlight and do not expose to temperature exceeding 50 deg C. Do not pierce or burn even after use. Do not spray on naked flame or any incandescent material. Keep from sources of ignition. – No smoking. Keep out of reach of children.
Haz ingredients (label)	:	PROPAN-2-OL

Note:

The regulatory information given above only indicates the principal regulation specifically applicable 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. ADDITIONAL INFORMATION

Risk Phrases Listed in Section 2

R11	Highly Flammable
R 36	Irritating to the eyes
R 67	Vapours may cause drowsiness and dizziness.
R12	Extremely flammable

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.