

**MATERIAL SAFETY DATA SHEET**

**ITCO INDUSTRIES LTD.,**

#321, Raheja Arcade, Koramangala, Bangalore - 560 095,  
INDIA  
Ph. No. (080) 553 9459 Fax No. (080) 553 9460

**1 - PRODUCT IDENTIFICATION**

- 1.1 COMMERCIAL NAME : ITCOGEL C 450
- 1.2 SUPPLIER : ITCO INDUSTRIES LTD.  
*Emergency Contact : Safety Department*
- 1.3 TYPES OF USE : Thixotropic Jelly (Flooding Compound)  
for Optical Fibre Cables.  
*(for other information, see the technical data sheet) :*
- 1.4 OTHER DATA : ---

**2 - COMPOSITION / INFORMATION OF INGREDIENTS**

- 2.1 Ingredients : Mixture of Synthetic / Hydrocarbon Base Oils, Polymers with antioxidant.
- 2.2 Components or impurities contributing to hazard : None
- 2.3 OTHER DATA : Nil

**3 - HAZARDS IDENTIFICATION**

This product is not classified as dangerous for supply or conveyance.

This product in low oral and dermal conditions of use should present no significant health hazards.



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**RATEL**

**Telecommunications Co., Ltd.**

Trade registration Nr.- 447404 - 394986

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## 4 - FIRST AIR MEASURES

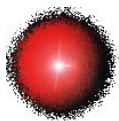
- |     |                    |  |
|-----|--------------------|--|
| 4.1 | Product in Eyes:   | Immediately rinse the eyes with plenty of water for at least 10 minutes, holding the eyes open. If irritation occurs, seek medical assistance. |
| 4.2 | Product on Skin:   | Wash skin with soap and water.   |
| 4.3 | Product ingested : | Wash out mouth with water. Obtain medical attention  |
| 4.4 | Product Inhaled :  | Remove from exposure   |

## 5 - FIRE – FIGHTING MEASURES

- |     |                                    |  |
|-----|------------------------------------|--|
| 5.1 | EXTINGUISHING MEDIA                | : Foam, Water Fog, CO2, Dry Chemical, Sand   |
| 5.2 | FIRE FIGHTING PROCEDURES           | : Use foam and water spray carefully to prevent excessive frothing. Use water to keep fire-exposed containers cool. Water spray may be used to flush spills away from exposures.   |
| 5.3 | FIRE FIGHTING INSTRUCTIONS         | : For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment. This may include self-contained breathing apparatus to protect against the hazardous effects of normal products of combustion or oxygen deficiency. |
| 5.4 | UNUSUAL FIRE AND EXPLOSION HAZARDS | : Slight when exposed to heat or flame; can react with oxidizing materials.  |
| 5.6 | COMBUSTION PRODUCTS                | : Normal combustion forms carbon dioxide and water vapour, incomplete combustion can produce smoke and carbon monoxide.  |

## 6 - ACCIDENTAL RELEASE MEASURES

- |     |   |   |
|-----|---|---|
| 6.1 | PERSONAL PRECAUTIONS                          | : See Section 8.  |
| 6.2 | PROCUDERES IF MATERIAL IS RELEASED OR SPILLED | : Stop excessive flow and dermal contact. Wash site of spillage thoroughly with soap and water. Remove soiled clothing. Observe governmental spill & water quality regulations. |
| 6.3 | ENVIRONMENTAL PRECAUTIONS                     | : Prevent spills from entering storm sewers or drains.  |
| 6.4 | WASTE DISPOSAL                                | : Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable local environmental regulations.                                  |



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## 7 - HANDLING AND STORAGE

- 7.1 PRECAUTIONS DURING STORAGE AND HANDLING:
- Stock in lined and closed steel drums.
  - Provide vent for heating operations.
  - Provide sufficient ventilation for heating at elevated temperatures.
- 7.2 MATERIALS FOR PACKAGING OR BOTTLING: - SUITABLE: Non corroded metal drum
- 7.3 HAZARDOUS REACTIONS WITH: No known reactions
- 7.4 HAZARDOUS DECOMPOSITION PRODUCTS: combustion gives CO<sub>2</sub> and water.
- 7.5 INDIVIDUAL PROTECTIVE MEASURES:
- Use of Neoprene gloves and protective glasses is recommended when handling this product.
- 7.6 SPECIAL PROTECTIVE MEASURES: ---
- 7.7 MEASURES AFTER SPILLAGE OR LEAKAGE :
- Try to prevent spillage from entering drains, sewers, or watercourses.
  - Contain and absorb spills with earth or sand and transfer to suitable containers for disposal.
  - Recommended method of disposal is by incineration or landfill according to local and state Regulations.
- 7.8 OTHER RECOMMENDATIONS: Earthing recommended.

## 8 - EXPOSURE CONTROL / PERSONAL PROTECTION

- 8.1 Occupational Exposure Limits: Not assigned : Hygiene Standard of 200 ppm for vapour and 5 mg/m<sup>3</sup> for mists and aerosols are recommended.
- 8.2 On Eyes: Unlikely to cause more than a mild, transient irritation. No adverse effects were observed in the eyes of the treated rabbits and there was no evidence of corneal involvement.  
Practically, non -irritant to the mucous membrane.
- 8.3 On Skin : Brief contact will have no effect. No skin reaction like Oedema or Erythema was observed in the treated rabbits.  
Practically, non-toxic by skin absorption.
- 8.4 By Ingestion : Acute : practically non-toxic. Swallowing of significant amounts may give rise to gastrointestinal disturbance.
- 8.5 When Inhaled : Exposure to vapour at concentrations greatly above the Hygiene standard would be expected to cause some irritation to the upper respiratory tract.



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## 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1	PHYSICAL STATE	: Transparent Viscous Jelly
9.2	CHARACTERISTIC TEMPERATURES	: Drop Point > 190°C
9.3	SOLUBILITY	: Insoluble in water
9.4	DENSITY : at 25°C	: 0.86 ± 0.01 g/cm <sup>3</sup>
9.5	OTHER DATA :	
	Viscosity - Brookfield (Model HA n° 7)	
	cP x 10 <sup>3</sup> at 25°C and at 10.0 rpm	: 56000 ± 10000
9.6	FLASH POINT	: > 230°C (COC)
9.7	SELF - IGNITION TEMPERATURE	: > 250°C (COC)

## 10 - STABILITY AND REACTIVITY

10.1	STABILITY (THERMAL, LIGHT ETC.,)	: Stable
10.2	CONDITIONS TO AVOID	: Extreme heat
10.3	INCOMPATIBILITY (MATERIALS TO AVOID)	: Strong oxidizers
10.4	HAZARDOUS DECOMPOSITION PRODUCTS	: Carbon monoxide
10.5	HAZARDOUS POLYMERIZATION	: Will not occur

## 11- TOXICOLOGICAL INFORMATION

11.1	ORAL TOXICITY (RATS)	: LD50 : > 5 g/kg / Practically non – toxic.
11.2	DERMAL TOXICITY (RABBITS)	: LD50 : > 5 g/kg / Practically non – toxic.
11.3	INHALATION TOXICITY (RATS)	: Practically non – toxic
11.4	EYE IRRITATION (RABBITS)	: Practically non – irritating
11.5	SKIN IRRITATION (RABBITS)	: Practically non – irritating
11.6	Further Information	: Toxicological data are based on data from similar / corresponding products.

## 12 - ECOLOGICAL INFORMATION

12.1	ECOTOXICITY EFFECTS	: No data available
12.2	ENVIRONMENTAL FATES	: Product disposal should be by incineration followed by disposal of solid residue (if any) in an appropriate dump. Since the used raw materials are mostly natural Hydrocarbons, it is not expected to have any detrimental effect on the environment. No specific data available.



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## 13 - DISPOSAL CONSIDERATIONS

This product is a controlled waste. Collect and dispose of waste product at an authorized facility, in conformance with national and local regulations, and in accordance with EEC Directives similar to disposal of waste oil.

## 14 - TRANSPORT INFORMATION

- 14.1 Land Transportation : Not dangerous for conveyance.
- 14.2 Sea Transportation : Not dangerous for conveyance.
- 14.3 Air Transportation : Not dangerous for conveyance.
- 14.4 Transport Temperature : Preferably ambient
- 14.5 Other Information : Keep containers closed when not in use.

## 15 - REGULATORY INFORMATION

- 15.1 EC DANGEROUS SUBSTANCES / PREPARATIONS CLASSIFICATION : Not regulated
- 15.2 OTHER INFORMATION : ---

## 16 - OTHER INFORMATION

- 16.1 USE : In Communciation cables
- 16.2 SOURCE OF KEY DATA : The recommendations presented in this Material Safety Data Sheet were compiled from actual test data when available, comparison with similar products, component information from suppliers and from recognized codes of good practice. The data and recommendation presented herein are based on our research and the research of others, and are believed to be accurate. No guarantee of their accuracy is made; however, and the products discussed are distributed without warranty, express or implied, and the person receiving them small make his own determination of the suitability thereof for his particular purpose.

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