



SUTURES INDIA PVT. LTD.
472 D , 13TH CROSS, 4TH PHASE
PEENYA INDUSTRIAL AREA, BANGALORE-560058

SAFETY DATA SHEET

Doc. No.:
SDS- 11

PRODUCT : Solution for Surgical Catgut

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Section 1: Identification

Product Name : Solution for Surgical Catgut Sutures

Uses : A chilled liquid solution used in the packaging of surgical catgut sutures.

Manufacturer : Suture India Private limited

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Peenya Industrial Area, Bengaluru, Karnataka -560 058, India.
Ph : +(91)-(80)-41868000
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Section 2: Hazard(s) Identification

Health Effects – Skin

Repeated or prolonged contact may produce defatting of the skin leading to irritation and dermatitis. Liquid may be absorbed through the skin but not in toxicologically significant amounts, unless the area of contact is large and exposure prolonged.

Health Effects – Ingestion

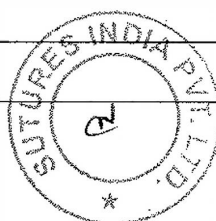
Swallowing may have the following effects: - irritation of mouth, throat and digestive tract - central nervous system depression

A large dose may have the following effects: - dizziness - drowsiness - headache - mental confusion - nerve damage leading to numbness and muscle weakness - fall of blood pressure - liver damage - kidney damage - lung damage

Health Effects – Inhalation

Exposure to vapor may have the following effects: - irritation of nose, throat and respiratory tract - central nervous system depression.

Exposure to vapor at high concentrations may have the following effects: - dizziness - drowsiness - headache - mental confusion - lung damage - fall of blood pressure - liver damage - kidney damage - nerve damage leading to numbness and muscle weakness.





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Section 3: Composition/Information on Ingredients

Component Name	Notice
Isopropyl alcohol	Formula : C ₃ H ₈ O SARA 313: CAS#/code 67-63-0
Triethanolamine	Formula : C ₆ H ₁₅ NO ₃ SARA 313: CAS#/code 102-71-6
Ethylene oxide	Formula : C ₂ H ₄ O SARA 313: CAS#/code 75-21-8

Section 4: First-Aid Measures

Eyes

Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.

Skin

Immediately flood the skin with large quantities of water, preferably under a shower. Remove contaminated clothing and continue washing. Contaminated clothing should be washed or dry-cleaned before re-use. Obtain medical attention if blistering occurs or redness persists.

Ingestion

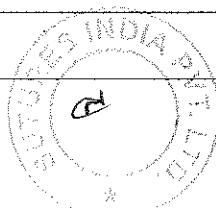
Do not induce vomiting. Have victim drink 1-3 glasses of water to dilute stomach contents. If there is difficulty in breathing, give oxygen. Obtain medical attention immediately.

Inhalation

Remove from exposure. If there is difficulty in breathing, give oxygen. Obtain medical attention immediately.

Advice to Physicians

Monitor for systemic secondary effects on liver and kidney; support and treat.





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Section 5: Fire-Fighting Measures

Flash Point : NOT AVAILABLE

Flammability : NOT AVAILABLE

Auto ignition Temp : NOT AVAILABLE

Extinguishing Media : Water, carbon dioxide, dry chemical powder, or appropriate foam.

Fire Fighting : Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific Hazard(s) : Hazardous combustion products may include carbon monoxide. The vapor is heavier than air, spreads along the ground and distant ignition is possible..

Section 6: Accidental Release Measures

Personal Precaution : Wear suitable protective equipment. See Section 8.

Cleaning Up : Contain and absorb using earth, sand or other inert material. Transfer into suitable containers for recovery or disposal. Flush contaminated area with plenty of water. Retain washings as contaminated waste

Section 7: Handling and Storage

Handling : Avoid contact with eyes, skin, and clothing.
Keep container tightly closed when not in use. Store away from sources of heat or ignition.

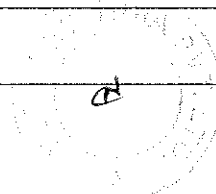
Storage : Storage temperature should be kept below 10 °C. Storage area should be: - cool - dry - well ventilated - away from incompatible materials

Section 8: Exposure Controls/Personal Protection

Engineering Controls : Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (dilution and local exhaust), and control of process conditions.

Personal Protective (Respiratory) : Wear mask, Chemical goggles or safety glasses and clothes.

Equipment (Hand) : Chemical resistant gloves.





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Eye : Safety goggles.
General Hygiene : Wash thoroughly after handling.

Measure Wash contaminated before reuse.

Section 9: Physical and Chemical Properties

Physical State : Liquid
Appearance : Twisted
Molecular Weight : NOT AVAILABLE
pH : NOT AVAILABLE
BP/BP Range : NOT AVAILABLE
MP/MP Range : NOT AVAILABLE
Freezing Point : NOT AVAILABLE
Vapour Pressure : NOT AVAILABLE
Vapor Density : NOT AVAILABLE
Odor Threshold : NOT AVAILABLE
Viscosity : NOT AVAILABLE

Section 10: Stability and Reactivity

Stability : Stable under normal conditions.
Decomposition : oxides of carbon - oxides of nitrogen
Polymerization : Ethylene Oxide, present at <0.5% is reactive and may undergo slow polymerization during storage.

Section 11: Toxicological Information

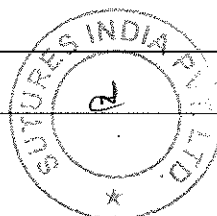
Acute Toxicity

Isopropyl Alcohol: Oral LD50 (rat) 5045mg/kg. Dermal LD50 (rabbit) 12800mg/kg. Inhalation LCLO (rat) 1600ppm 4h A 100 mg dose applied to the rabbit eye caused severe irritation.

Triethanolamine: Oral LD50 (rat) 8000mg/kg. A 20 mg dose applied to the rabbit eye caused severe irritation.

Ethylene Oxide: Oral LD50 (rat) 72mg/kg. A 18 mg dose applied to the rabbit eye for 6 hours caused moderate irritation.

Chronic Toxicity/Carcinogenicity





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(Isopropyl Alcohol) Chronic/Subchronic studies resulted in adverse effects to: - liver - spleen - biochemical effects - brain tissue degeneration - changes in reflex behavior - sensory nerve damage

Ethylene Oxide: In rats, long-term inhalation (TCLo=33 ppm/6h/2years) caused increased incidence of leukemia and brain cancer. In mice, inhalation (TCL=50ppm/6h/2years) caused increased incidences of cancer in various locations including the lungs, uterus, and mammary glands. Oral exposure in rate (1186mg/kg/2years) was associated with cancer of the forestomach.

Triethanolamine: Oral exposure in rats (16 gm/kg for 64 weeks) and mice (154 gm/kg for 61 weeks) caused blood lymphomas, including Hodgkin's disease and tumors of the skin and appendages

Section 12: Ecological Information* (non-mandatory)

NOT AVAILABLE

Section 13: Disposal Considerations* (non-mandatory)

Landfill where permitted under appropriate Federal, State, and local regulations. Dispose in accordance with all applicable Federal, State, Provincial, and local environmental regulations.

Section 14: Transport Information* (non-mandatory)

DOT : Proper Shipping Name : Not regulated
Non-hazardous for transport.

IATA : Non-hazardous for air transport.

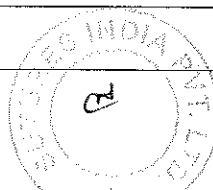
Section 15: Regulatory Information* (non-mandatory)

United State Regulatory Information:

SARA : Listed SARA Title III Sect. 311/312 Categorization

Canada Regulatory Information

WHMIS Classification : This product has been classified in accordance with the hazard criteria of the CPR, and the SDS contains all the information required by the CPR.





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DSL : Yes

NDSL : Yes

Section 16: Other Information

Notice:

This Safety Data Sheet (SDS) is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. It does not represent any guarantee of the properties of the product. Sutures India Private limited shall not be held liable for any damage resulting from handling or from contact with the above product.

