
MATERIAL SAFETY DATA SHEET

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

Product Name: DisSolve E

Other Names: N/A

Recommended Use: Solvent for removing gutta percha at the time of root canal re-treatment.

Company name: Safe Endo Dental India Pvt. Ltd.

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2 - HAZARDS IDENTIFICATION

Sign and Symptoms of Acute Exposure

Inhalation :

No significant adverse health effects are expected to occur upon short term exposure to this product. Aspiration of liquid into the lungs can cause severe lung damage or death

Eye Contact : Minimal eye irritation may result from short-term contact with liquid , mist and /or vapor.

Skin Contact : No significant irritation is expected to occur upon short term exposure

Ingestion : If swallowed in quantities greater than one teaspoon, this material can cause a laxative effect. **Chronic Health Effects Summary :** Prolonged or repeated contact can cause mild skin irritation and inflammation characterized by drying, cracking, dermatitis or oil acne

Chronic Health Effects : No significant signs or symptoms indicative of any adverse health effects are expected to occur.

3 - COMPOSITION/INFORMATION ON INGREDIENTS

Product based on D-limonene and does not contain synthetic other solvents

4 - FIRST AID MEASURES

Eye Contact : Check for and remove contact lenses. Flush eyes with cool, clean, low pressure water while occasionally lifting and lowering eyelids. Seek medical attention if excessive tearing, redness, or pain persists

Skin Contact : Remove contaminated shoes and clothing wipe of excess material. Wash exposed skin with the soap and water. Seek Medical attention if tissue appears damaged or if irritation persists. Thoroughly clean contaminated clothing before reuse. Discard contaminated leather goods.

Inhalation : Vaporization is not expected at ambient temperature. This material is not expected to cause inhalation-related disorders under anticipated conditions of use. In case of overexposure, move the person to fresh air.

Ingestion : Do not induce vomiting or give anything by mouth, if spontaneous vomiting is about to occur, place victim's head below knees. If victim is drowsy or unconscious, place on the left side with head down. Never give anything by mouth to a person who is not fully conscious. Do not leave victim unattended. Seek medical attention immediately.

Notes to Physician:

This material presents a significant aspiration Hazard. Induction of emesis is not recommended because of the potential for aspiration. Aspiration may produce chemical pneumonitis. Treatment may involve careful gastric lavage if performed soon after ingestion or in patients who are comatose or at risk of convulsing. Protect airway by placement in Trendelenburg and left lateral decubitus position or by cuffed endotracheal intubation. Subcutaneous or intramuscular injection requires prompt surgical debridement.

5 - FIRE-FIGHTING MEASURES**Flash point and Method :**

181 F Pinsky Martens CC OSHA/NFPA Flammability Classification Class IIIB Combustible Liquid .Slightly combustible. Hazardous Combustion Products: Carbon dioxide , carbon monoxide, smoke, fumes and unburned hydrocarbons.

Extinguishing Media : Foam, dry chemical, carbon dioxide.

Special Fire Fighting Procedures:

Firefighter must use full bunker gear including NIOSH-approved positive pressure self contained breathing apparatus to protect against potential hazardous combustion or decomposition product and oxygen deficiencies. Withdraw immediately from the area if there is a rising sound from a venting safety device or discoloration of vessels, tanks or pipelines.

Unusual Fire and Explosion Hazards:

When heated above its flash point temperature, this material will release vapors which , if exposed to an ignition source, can ignite . in enclosed spaces, vapors can ignite with explosive force. Mists or sprays may burn at temperatures below the flash point.

6 - ACCIDENTAL RELEASE MEASURES

Take proper precautions to ensure your own health and safety before attempting spill control or cleanup. Do not touch damaged containers or spilled material unless wearing appropriate protective equipment. Slipping hazard; do not walk through spilled material. Stop leak if you can do so without risk. For small spills, absorb or cover with dry earth, sand or other inert non-combustible absorbent material and place into waste containers for later disposal. Contain large spills to maximize product recovery or disposal , Prevent entry into waterways or sewers, in urban area, cleanup advice from specialists to minimize physical habitat damage. This material will float on water. Absorbent pads and similar materials can be used. Comply with all laws and regulations.

7 - HANDLING AND STORAGE

Avoid water contaminated and extreme temperatures to minimize product degradation. Empty containers may contain product residues that can ignite with explosive force. Do not pressurize, cut , weld, braze solder, drill, grind or expose container to flames. Sparks, heat or other potential ignition sources. Consult appropriate federal, state and local authorities before reusing, reconditioning, reclaiming recycling or disposing of empty containers and/or waste residues of this product, Keep containers closed. Do not store with strong oxidizing agents. Do not store at temperatures above 95 F or in direct sunlight for extended periods of time.

8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA : 5mg/m³, ACGIH/OSHA; STEL: 10 mg/m³

Respiratory Protection : NIOSH approved respirator if airborne mist exceeds recommended exposures limits

Eye Protection : Safety goggles or glasses with side shields if potential for splashing exists.

Exhaust Required : Ventilate to keep airborne mist below recommended exposure limits

Protective Gloves : Chemical resistant gloves(neoprene or nitrile)

Special Protective Clothing : Impervious Clothing (neoprene or Tyvek) if potential or splash exists

Hygienic Practities : Wash skin with mild soap and water after exposure.

9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance & Odor : Oily transparent liquid with strong orange odor

Solubility in water : None

pH in water:4.90

Specific Gravity : 0.798-0.882

10 - STABILITY AND REACTIVITY

Stability: Stables

Incompatibility : Avoid contact with active alkali metals and oxidizers

Conditions to Avoid: Product is combustable. Avoid ignition sources and extreme heat

Hazardous Polymerization: Not expected to occur

Hazardour Decompostion products: None another than combustion product identified in Section 5

11 - TOXICOLOGICAL INFORMATION

Oral (LD50): Acute>5000mg/kg(rat)

Dermal(LD50):Acute:>2000mg/kg(rabbit)

Draize Eye, Acute : Non -Irritataing (rabbit)

Draize Dermal, Acute: Non -Irritataing (rabbit)

Buehler, Acute:Non-sensitizing(Guinea Pig)

28-Day Dermal, Sub Chronic: Non -Irritataing (rabbit)

104-Week Dermal, Chronic: No SkinTumors at site of application (Mouse) Mutagenicity

Modified Ames Assay: Negative (Salmonella Typhimurium)

In-vitro Lymphoma Assay: Negative or no toxicity(Mouse) Lifetime mouse skin painting studies indicated that white mineral oils are not mutagenic or carcinogenic, Minearal oil mists derived from highly refined oil are reported to have low acute and sub-acute toxicities in animals. Effects from single and shot-term repeated exposures to high concentrations of mineral oil mist well above applicable workplace exposure levels include lung inflammatory reaction, lipid granuloma formation and lipid pneumonia. In acute and sub-acure studies involing exposures to lower concentrations of mineral oil mist at or near current work place exposures levels produced no significant toxicological effects. In long term studies (up to two years) no carcinogenic effects have been reported in any animal species tested.

12 - ECOLOGICAL INFORMATION

Ecotoxicity:

Analysis for ecological effects has not been conducted on this product. However, if spilled this product and any contaminated soil or water may be harmful to human, animal and aquatic life. Also, the coating action associated with petroleum and petroleum products can be harmful or fatal to aquatic life and waterfowl.

Environment Fate:

An Environment fate analysis has not been conducted on this specific product. Plants and animals may experience harmful or fatal effects when coated with petroleum-based products. Petroleum –based (mineral)lube oils will normally float on water. In Stagnant or slow flowing waterways an oil layer can cover a large surface area. As a result this oil layer might limit or eliminate natural atmospheric Oxygen transport into the water. With time , if not removed, Oxygen depletion in the waterway might be enough to cause a fish kill or create an anaerobic environment.

13 - DISPOSAL CONSIDERATIONS

DISPOSAL METHOD:

Conditions of use may cause this material to become a Hazardous waste as defined by federal or state regulations. It is responsibility of the user to determined if the material is a RCRA hazardous waste at the time of disposal. Transportation, treatment storage and disposal of waster material must be conducted in accordance with RCRA regulations(see40 CFR 260 through 40 CFR 271). State and/or local regulations may be more restrictive.

14 *TRANSPORT INFORMATION*

Not DOT, IMDG or IATA regulated

15 - *REGULATORY INFORMATION*

TCSA Inventory : This product and/or its components are listed on the Toxic substance Control Act(TSCA):-

SARA 311/312 : No Hazard catagories identified

SARA 313 : No component were identified

CWA: this material is classified as an oil under section 311 of the Clean Water Act and the Oil polluted Act of 1990(OPA): Discharges or spills which produce a visible sheen on waters of the United State.

This product is not known to contain any component for which the state of California has found to cause cancer, birth defects or other reproductive harm

16 - *OTHER INFORMATION*

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. The information contained herein is based on data considered accurate. However , No warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. In no event will the manufacture of the distributor be responsible for damages of any nature whatsoever resulting from the use of or reliance upon this information . General properties are to be regarded as guidelines and are not guaranteed for all samples