



MATERIAL SAFETY DATA SHEET

Revised/ Reviewed: June 11, 2004

SURGICAL INSTRUMENT CLEANER

A biodegradable, phosphate-free formula for ultrasonic and manual cleaning of surgical instruments.

Section 1- Product and Company Information

Manufactured by: Miltex, Inc; 589 Davies Drive, York, PA 17402

Information: 717-840-9335, 717-840-9347 (fax)

Chemical Name & Synonyms: --

Chemical Formula: --

Section 2 – Composition/ Information on Ingredients

Water, Sodium Dodecylbenzene Sulfonate, Propylene Glycol, Linear Alcohol Ethoxylate, Cocamide Diethanolamide, Tetrasodium EDTA, Sodium Xylene Sulfonate, and Citric Acid. OSHA PEL's and ACGIH TLV's have not been established for any of these materials.

Section 3 - Health Identification

Primary Route(s) of Entry: Eye, Skin, and Ingestion.

Health Hazards (Acute and Chronic): Can cause skin and eye irritation. Vapor inhalation can irritate nose, throat, and respiratory tract. May cause nausea if ingested and Tetrasodium EDTA will sequester calcium, which could be harmful to bones. Repeated excessive ingestion may cause central nervous system effects. Could be harmful to bone structure.

Carcinogen: No known carcinogenic effects.

Medical Conditions Aggravated by Exposure: None known.

Signs and Symptoms of Exposure: None known.

Section 4 - First Aid Measures

Eyes: Flush with tepid water for at least 15 minutes. Hold eyelids apart during flushing to ensure rinsing of entire eye and lid surface. *Do not* attempt to neutralize with chemical agents. Oil and ointments should not be used at this time. As needed, seek medical attention as soon as possible.

Skin: If in contact with skin, wash off with mild soap and water. Rinse with copious amounts of water. If dry skin results, apply a moisturizing cream or lotion.

Ingestion: *Do not* induce vomiting. Give a glass of water. If vomiting occurs, again give fluids. Do not give anything to an unconscious or convulsing person. Have medical personnel determine if evacuation of the stomach or induction of vomiting is necessary.

Inhalation: If any ill effects are noticed, remove person to fresh air.

Section 5 – Fire Fighting Measures

Flash Point (Test Method): Non-combustible

Auto Ignition Temperature: Not applicable

Flammable Limits- LEL: Not applicable UEL: Not applicable

Extinguishing Media: Water, carbon dioxide, and dry chemical

Special Fire Fighting Procedures: None

Unusual Fire and Explosion Hazards: Fire may produce irritating gas, fumes, or vapor (CO, Propionaldehyde)

Section 6 - Physical and Chemical Properties

Physical State: Liquid at ambient temperature.

Appearance and Odor: Clear yellow liquid with a slight ammonical odor.

Boiling Point (°C): Not determined

Specific Gravity (Water=1): 1.05-1.09

pH: 5.60 – 5.90

Evaporation Rate (butyl acetate=1): Not determined

Vapor Pressure (mm Hg): Not determined

Vapor Density (Air=1): Not determined

Solubility in Water: Soluble

Section 7 – Stability and Reactivity

Stability: Stable

Conditions to Avoid: Contact with strong acids. Do not mix with bleach. Do not expose to high heat.

Incompatibility/ Materials to Avoid: Strong oxidizing materials.

Hazardous Polymerization: Will not occur

Hazardous Decomposition Products: Irritating or toxic substances may be emitted upon thermal decomposition. In a fire situation, Propionaldehyde and CO could be emitted in the presence of limited oxygen. Aldehydes, acids, and ketones could also be released.

Section 8 – Accidental Release, Disposal, and Ecological Information

Spill Response: Soak up liquid with absorbent material and place the material in a chemical waste chemical container for disposal.

Waste Disposal Method: Dispose of in accordance with all applicable federal, state, and local regulations.

Ecological, General: Not determined.

Section 9 – Exposure Controls/ Personal Protection

Eye Protection: Goggles or lab safety glasses.

Respiratory Protection: Not required

Ventilation Recommendations: General room ventilation is normally sufficient.

Skin Protection: Rubber or plastic gloves.

Other: As required to minimize skin contact.

Section 10 – Storage and Handling

Storage: Store in a cool, dry area. Keep container closed when not in use.

Handling: Use gloves to protect skin from drying and possible irritation. Application of a moisturizing compound will help prevent skin problems. Keep food away from the work area and wash hands and face thoroughly before eating.

Section 11 – Miscellaneous

Toxicological Information: LD₅₀ (oral) 630-1260 mg/kg (rats), 2.6 ml/kg (rabbit); LC₅₀ 800mg/m³ (guinea pigs); LD₅₀ (skin) 5.7 ml/kg (rabbit)

Transportation Information: Not a DOT hazardous material. Not an EPA marine pollutant.

Other: --

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