



MATERIAL SAFETY DATA SHEET

Revised/ Reviewed: July 23, 2007

ENDOKLEAN (a.k.a. EndoKlean Juniors)

A 2.5% sodium hypochlorite solution for endodontic irrigation.

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: Bleach; sodium hypochlorite solution; hypochlorous acid; sodium salt; soda bleach; sodium oxychloride.

Chemical Formula: NaOCL

Section 2 – Composition/ Information on Ingredients

Sodium hypochlorite, CAS # 7681-52-9; < 3% (w/v); OSHA PEL (as chlorine) = 0.5 ppm (TWA) & 1 ppm (STEL), ACGIH TLV (as chlorine) = 1 ppm (TWA) & 3 ppm (STEL).

Section 3 - Health Identification

Potential Health Effects: May burn eyes, skin, and mucous membranes. Harmful by ingestion. The material is an oxidizer.

Primary Route(s) of Entry: Inhalation and ingestion.

Carcinogen: NTP Program- Not Indicated IARC Program- N/I OSHA Program- N/I

Medical Conditions Aggravated by Exposure: Persons with impaired respiratory function may be more susceptible to the effects of this material.

HMIS Ratings: Health = 2; Flammability = 0; Reactivity = 1; PPE = C

Section 4 - First Aid Measures

Get medical attention for all cases of over exposure!

Eyes: Flush with tepid water for at least 15 minutes. Hold eyelids apart during flushing to ensure rinsing of entire eye and lid surface. Seek medical attention immediately.

Skin: Remove any contaminated clothing. Immediately wash skin with mild soap and water, then flush skin with water for at least 15 minutes.

Ingestion: If swallowed, DO NOT induce vomiting. Give large quantities of water. Seek immediate medical attention.

Inhalation: Remove to fresh air. If breathing is difficult, give oxygen and seek immediate medical attention. Note to Physician: Consider oral administration of sodium thiosulfate solutions if material is ingested. Do not administer neutralizing substances since the resultant exothermic reaction could further damage tissue.

Section 5 – Fire Fighting Measures

Flash Point (Test Method): Not applicable, material is non-flammable

Auto Ignition Temperature: N/A

Flammable Limits- LEL: N/A UEL: N/A

Extinguishing Media: Sufficient for surrounding materials

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and protective clothing if necessary.

Unusual Fire and Explosion Hazards: Material releases oxygen when heated, which may increase severity of an existing fire. Containers may rupture from pressure build-up. Toxic fumes may be produced.

Section 6 - Physical and Chemical Properties

Physical State: Liquid at ambient temperature.

Appearance and Odor: Colorless to yellowish liquid, with chlorine-like odor

Melting Point (°C): Not applicable

Vapor Pressure (mm Hg): Approximately 17.5 @ 20°C

Specific Gravity (H₂O=1): Approximately 1.07

Vapor Density (Air=1): Undetermined

Evaporation Rate (butyl acetate=1): Undetermined

Solubility in Water: Miscible

Section 7 – Stability and Reactivity

Stability: Stable

Conditions to Avoid: Slowly decomposes on contact with air. Rate increases with temperature and exposure to sunlight.

Incompatibility/ Materials to Avoid: Ammonia (chloramine gas may evolve), amines, ammonium salt, aziridine, methanol, phenyl acetonitrile, cellulose, ethyleneimine, oxidizable metals, bisulfates, acids, soaps, combustible materials, and reducing agents.

Hazardous Polymerization: Will not occur

Hazardous Decomposition Products: Emits toxic fumes of chlorine when heated to decomposition and sodium oxide at high temperatures.

Section 8 – Accidental Release, Disposal, and Ecological Information

Spill Response: Wear appropriate personal protection equipment. If necessary, ventilate area of spill.

Collect liquid in appropriate container or absorb with an inert material and scoop up and containerize for proper disposal.

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

Ecological, General: Undetermined

Section 9 – Exposure Controls/ Personal Protection

Eye Protection: Use chemical safety goggles and/or full face shield where splashing is possible. Eyewash should be available.

Respiratory Protection: If exposure limit is exceeded, NIOSH-approved respirator with acid gas cartridge.

Ventilation Recommendations: Local and/or general as needed to keep employee exposure below exposure limits.

Skin Protection: Wear impervious clothing, including gloves, as appropriate to prevent skin contact.

Other: Do not breathe vapors or mist. Do not get in eyes, or on skin or clothing.

Section 10 – Storage and Handling

Storage: Keep in a tightly closed container and store in a cool, dry, well-ventilated area. Isolate from incompatible materials and keep away from ignition sources.

Handling: Wash thoroughly after handling.

Section 11 – Miscellaneous

Toxicological Information: None available

Transportation Information: Not believed to be regulated since available chlorine is less than 5%.

Other: --

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