

MATERIAL SAFETY DATA SHEET

CETYLITE® INDUSTRIES, INC.

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EFFECTIVE DATE: 1/1/96

Hazard Rating (NFPA 704)

Health	2	0=Least
Fire	1	1=Slight
Reactivity	0	2=Moderate
Special	none	3=High
		4=Extreme

SECTION 1 - IDENTIFICATION

PRODUCT NAME: General Purpose Ultrasonic Cleaner

<u>MAIN HAZARDOUS CHEMICAL INGREDIENTS</u>	<u>PERCENT %</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Isopropyl alcohol	13.1	400 ppm	400 ppm
Propylene glycol	10.6	none	none
Sodium nitrite	7.1	none	none
Cetyldimethylethylammoniumbromide	6.5	none	none
Alkyldimethylbenzylammoniumchloride	6.4	none	none
Sodium carbonate	1.3	none	none
Ethylenediaminetetraacetic acid	1.0	none	none

Note: Substances listed as hazardous ingredients are those identified as being present at a concentration of 1% or greater, or 0.1% if the substance is classified and listed as a potential carcinogen by OSHA Hazard Communication Standard.

SECTION 2 - PHYSICAL DATA

BOILING POINT:	Not determined.
VAPOR PRESSURE AT 20°C:	Not determined.
VAPOR DENSITY (air=1):	Not determined.
SPECIFIC GRAVITY (H₂O=1):	Not determined.
SOLUBILITY IN WATER by wt:	Very soluble.
MELTING POINT:	N/A
EVAPORATION RATE (Butyl Acetate=1):	Not determined.
FREEZING POINT:	Not determined.
APPEARANCE AND ODOR:	liquid, light yellow, odorless.

Note: Mixture not tested as a whole.

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT(test method(s): Not determined.
FLAMMABLE LIMITS IN AIR(% by volume): **LOWER:** Not determined
UPPER: Not determined.
EXTINGUISHING MEDIA: CO₂; dry chemical ; alcohol foam; water spray.
SPECIAL FIREFIGHTING PROCEDURES: Keep container and nearby structures cool with water spray. Wear positive-pressure, self-contained breathing apparatus.
UNUSUAL FIRE AND EXPLOSION HAZARDS: None.

SECTION 4 - REACTIVITY DATA

STABILITY: Stable under normal storage conditions.
INCOMPATIBILITY (materials to avoid): Strong oxidizing agents; combustible materials; prolonged exposure to heat.
HAZARDOUS DECOMPOSITION PRODUCTS: Nitrogen oxides; carbon monoxide; ammonia.
HAZARDOUS POLYMERIZATION: Will Not Occur.

SECTION 5 - SPILL OR LEAK PROCEDURES**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:**

Eliminate all ignition sources. Contain spilled material. Transfer to secure containers. Disperse residue. Use suitable absorbent materials.

WASTE DISPOSAL METHOD: Remove to permitted waste disposal facility or an approved incinerator in accordance with local, state and federal requirements. Empty container shall be rinsed before disposal.

SECTION 6 - HEALTH HAZARD DATA (Symptoms of Overexposure)

EYE CONTACT: Corrosive and irritant. May act as an allergen. Prolonged contact may cause corneal burns.

SKIN ABSORPTION: Corrosive and irritant. May act as an allergen.

INGESTION: Will cause irritation of digestive tract, dizziness and nausea. Large doses can produce cyanosis and uneven heart action.

INHALATION: Will cause irritation of mucous membranes, coughing and shortness of breath.

SKIN CONTACT: Brief contact will cause itching with mild to moderate local redness and possibly swelling. Prolonged contact may result in pain, severe redness and swelling, with ulceration, tissue destruction, and possibly bleeding into the inflamed area.

SYSTEMIC AND OTHER EFFECTS: None reported. Isopropanol was reported to be fetotoxic. Under certain conditions sodium nitrite may react with secondary amines to form carcinogenic nitrosamines. Overexposure to sodium nitrite can induce methemoglobinemia.

SECTION 7 - EMERGENCY AND FIRST AID PROCEDURES

EYES: Irrigate immediately with water for at least 15 minutes. Obtain medical advise of an ophthalmologist without delay.

SKIN: Wash off with soap and water. If irritation persists, seek medical advice.

INGESTION: If conscious drink water. Call a physician.

INHALATION: Remove to fresh air if effects occur. Get medical attention.

NOTES TO PHYSICIAN: In the event of overexposure and severe cyanosis give either 1 mg/kg methylene blue, I.V. or 1 mg. cyanocobalamine, I.M. Mucosal damage may contraindicate the use of gastric lavage.

SECTION 8 - HANDLING PRECAUTIONS

EXPOSURE GUIDELINE(S): None established.

VENTILATION: Good general ventilation should be adequate.

RESPIRATORY PROTECTION (specify type): If respiratory irritation is experienced, use an approved air-purifying respirator with particulate/organic vapor cartridge.

PROTECTIVE GLOVES: Use impervious rubber gloves when prolonged or repeated contact could occur. Wash contaminated clothing before reuse.

EYE PROTECTION: Use goggles or safety glasses with eye shields.

SECTION 9 - ADDITIONAL INFORMATION

SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING: Store in a cool, dry, well ventilated place away from heat, open flames and incompatible materials. Keep container tightly closed when not in use. Do not reuse empty container. Avoid repeated skin contact and eyes exposure. Do not permit eating, drinking or smoking near material.

EPA-EPCRA - Section 313 (Listed Chemical): NONE

REFERENCES - MSDS's for:

Isopropyl alcohol - 1989

Propylene glycol - 1989

Sodium nitrite - 1990

Bretol - 1988

BTC 50 - 1988

Sodium carbonate - 1990

Versene - 1988

DISCLAIMER:

The information herein given was derived solely from the main hazardous chemical ingredients MSDS on file at the time of this MSDS preparation. The information is given in good faith but no warranty, express or implied to the accuracy, completeness or adequacy of the information contained in this MSDS is made. We assume no warranties of fitness or liability from the use of this product. Since the conditions for use, handling, storage and disposal of this product are beyond Cetylite control, users should make their own investigations to determine the suitability of the information for their particular purposes. Users assume liability for damage, or expense arising out of product's improper use. Various Federal, State, or Provincial agencies may have specific regulations concerning the transportation, handling, storage, use or disposal of this product which may not be reflected in this MSDS. The user should review these regulations to ensure full compliance.