

MATERIAL SAFETY DATA SHEET # 31845

Complies with OSHA's 29 CFR
1910.1200 and State Hazard
Communication Standards.

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SECTION 1

PRODUCT IDENTITY: GLO-SAN, Toilet Bowl Cleaner

DATE PREPARED: 1/17/89

NFPA/HMIS HAZARD CODES (minimal = 0; slight = 1; moderate = 2; serious = 3; severe = 4)
Health: 3/3 Fire: 0/0 Reactivity: 2/2 Special: NA

SECTION 2: HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

HAZARDOUS COMPONENTS	CAS #	OSHA-PEL	ACGIH-TLV	% BY WT.
Hydrochloric Acid** (muriatic acid)	7647-01-0	5 ppm*	5 ppm*	23 min.

*Ceiling limit as hydrogen chloride
**SARA Title III Section 313 (40 CFR 372) reportable chemical

31845

SECTION 3: PHYSICAL / CHEMICAL CHARACTERISTICS

BOILING POINT: 220°F	SPECIFIC GRAVITY: 1.12
VAPOR PRESSURE: 25 mm Hg @ 20°C	PERCENT VOLATILE: 98
VAPOR DENSITY (air = 1): 1.26	EVAPORATION RATE: as water
SOLUBILITY IN WATER: complete	pH: less than 1

APPEARANCE AND ODOR: Opaque pink liquid; sharp, pungent irritating odor

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: None FLAMMABLE LIMITS: NA

EXTINGUISHING MEDIA: As for surrounding fire - product will not burn.

SPECIAL FIREFIGHTING PROCEDURES: Toxic hydrogen chloride fumes may be released in a fire. Use self-contained breathing equipment. Avoid exposure to mists and splashes. Cool exposed containers with water spray.

UNUSUAL FIRE AND EXPLOSION HAZARDS: As any strongly acidic solution, can react with metals, especially "soft" metals such as aluminum or zinc, to generate hydrogen. This gas is flammable and/or explosive in the presence of an ignition source.

SECTION 5: REACTIVITY DATA

STABILITY: Unstable HAZARDOUS POLYMERIZATION: Will not occur
CONDITIONS TO AVOID: High temperatures.

INCOMPATIBILITY: Do not mix with alkaline materials or strong oxidizers. Avoid contact with metals.

HAZARDOUS DECOMPOSITION PRODUCTS: Flammable hydrogen gas can be produced by reaction with most metals. Chlorine gas will be released by mixing with strong oxidizers.

31845

Page 2

MATERIAL SAFETY DATA SHEET: GLO-SAN
PAGE 2 OF 2

SECTION 6: HEALTH HAZARD DATA

ROUTES OF ENTRY/SIGNS AND SYMPTOMS OF EXPOSURE: ACUTE: Corrosive to eyes and mucous membranes. Skin: severe irritation, burning. Ingestion: harmful; severe swelling and tissue damage to mouth, throat and esophagus. Vapors may be irritating to eyes, nose, throat and upper respiratory tract.

CHRONIC EFFECTS: None known.

CARCINOGENS: None

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Respiratory (if mists or vapors inhaled).

EMERGENCY AND FIRST AID PROCEDURES: Eyes and skin: immediately flush with plenty of water for at least 15 minutes. Remove contaminated clothing. For eyes, call a physician immediately. Ingestion: DO NOT INDUCE VOMITING. Dilute by drinking several glasses of milk or water. Consult physician immediately. Inhalation: remove to fresh air; resuscitate if needed. Get medical attention as soon as possible.

SECTION 7: PRECAUTIONS FOR SAFE HANDLING AND USE

SPILL OR LEAK PROCEDURES: SMALL SPILLS: Immediately flush with large amounts of water. LARGE SPILLS: Dike to prevent runoff, reclaim all possible. Neutralize residues with soda ash or lime with adequate ventilation and flush with water.

WASTE DISPOSAL METHOD: Trained and properly equipped personnel may dilute and neutralize waste very carefully with dilute alkali in accordance with Federal, State and local regulations.

HANDLING AND STORING: Do not breathe vapor or fumes, or get on skin or in eyes. Keep container closed when not in use. Store as acid material in a cool, dry area away from oxidizers. Do not reuse empty containers. "Empty" containers may retain product fumes - handle with caution.

OTHER PRECAUTIONS: Do not mix with chlorine containing products. Do not use on any surfaces other than toilet bowls or urinals. Read and follow label directions. Keep out of reach of children.

SECTION 8: CONTROL MEASURES

RESPIRATORY PROTECTION: None normally required. NIOSH approved acid respirator if spray mist in air.

VENTILATION: Not normally required. Local exhaust with corrosion resistant equipment if vapor or mist in air or in enclosed areas.

GLOVES: Rubber or plastic.

EYE PROTECTION: Goggles or face shield.

OTHER PROTECTIVE EQUIPMENT: Rubber or plastic to prevent skin contact.

WORK/HYGIENIC PRACTICES: Remove and wash contaminated clothing before reuse.

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