

MATERIAL SAFETY DATA SHEET

MSDS NUMBER; MSDS-110 ISSUE DATE; 11/20/01

1. PRODUCT AND COMPANY IDENTIFICATION

Distributed By: K-Chem, Inc.
3908 3rd Avenue South
Birmingham, AL 35222
Information: (205) 592-0844

Product Name
SNO BOL Liquid Disinfectant Toilet Bowl Cleaner
SNO BOL Thick Liquid Toilet Bowl Cleaner
Emergency Phone:
1-609-683-5900 (USA)

EPA Reg. No. 10772-5
EPA Est. No. 55179-IN-1
Medical Emergency Phone;
1-800-228-5635

2. COMPOSITION/INFORMATION ON INGREDIENTS

CEILING EXPOSURE LIMITS(for hydrogen chloride)

Table with 7 columns: Ingredient, CAS No., % By Wt., OSHA, ACGIH, NIOSH, NIOSH IDLH. Row 1: Hydrochloric Acid, 7647-01-0, 15 %, ---, 5 ppm (7.6 mg/m3), ---, 100 ppm.

Contains no components reported to be carcinogenic by any reference source including IARC, OSHA, and NTP.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Clear blue liquid; wintergreen odor.
Can cause chemical burns to skin, eyes and mucous membranes.
Ingestion or inhalation can cause severe injury and possibly death.
Hazardous fumes will be generated if mixed with chlorine bleach, ammonia, or other household cleansers and chemicals.

This product is labeled in accordance with regulations administered by the Environmental Protection Agency (EPA). The use pattern and exposure in the workplace are generally not consistent with those experienced by consumers. The requirements of the Occupational Safety and Health Administration applicable to this MSDS differ from the labeling requirements of the EPA and, as a result, this MSDS may contain additional health hazard information not pertinent to consumer use and not found on the product label.

HMIS Rating table with 2 columns: Category, Rating. Health: 3, Fire: 0, Reactivity: 0.

Potential Health Effects

EYE: Can cause burns with impairment or permanent loss of vision.

SKIN CONTACT: Can cause severe irritation and chemical burns.

INGESTION: Harmful and may be fatal. Can cause mucous membrane and circumoral burns, abdominal pain and discomfort, perforation of the esophagus and gastrointestinal tract, necrosis of the stomach, respiratory distress (secondary to epiglottal swelling), shock, and renal failure.

INHALATION: Fumes can cause irritation with possible corrosive burns of the upper respiratory tract, pain and coughing, difficult breathing, headache, chemical pneumonitis, and pulmonary edema.

SUBCHRONIC EFFECTS/CARCINOGENICITY; None known. Ingredients are not listed as carcinogens or potential carcinogens by IARC, NTP, OSHA or ACGIH.

#### 4. FIRST AID MEASURES

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SKIN; Immediately remove contaminated clothing. Immediately flush affected areas with a large amount of water until no evidence of product remains. Get medical attention if irritation develops and persists. Wash clothing before reuse.

EYES: Immediately flush eyes with large amounts of clean, flowing water, occasionally lifting upper and lower eyelids. Flush eyes for 15 minutes or until no evidence of product remains. Get immediate medical attention.

INHALATION: Immediately move from area of exposure to fresh air. Get medical attention if person has difficulty breathing. If breathing has stopped, give artificial respiration and get medical attention immediately. Keep affected person warm and at rest. Treat symptomatically and supportively.

INGESTION: Get immediate medical attention. Do not induce vomiting. If vomiting occurs, keep head below hips to prevent aspiration. Dilution by rinsing the mouth and giving water or milk to drink is generally recommended. Do not attempt to give anything orally to an unconscious person.

#### 5. FIRE FIGHTING MEASURES

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##### FLAMMABLE PROPERTIES

##### FLAMMABLE LIMITS

FLASHPOINT; Not Determined

LFL: Not Determined

METHOD USED; Not Applicable

UFL: Not Determined

EXTINGUISHING MEDIA; Use extinguishing media appropriate for surrounding fire. Use water to cool containers that can not be moved.

FIRE-FIGHTING INSTRUCTIONS; Keep upwind and avoid breathing corrosive vapors. Thermal decomposition may release corrosive hydrogen chloride. Apply cooling water in flooding amounts and from as far a distance as possible to sides of containers that are exposed to flames until well after fire is out. Water should not be used directly on material, but water spray can be used to absorb corrosive vapors. Wear proper full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA) with full face piece operated in positive pressure mode.

UNUSUAL FIRE AND EXPLOSION HAZARDS; None identified.

#### 6. ACCIDENTAL RELEASE MEASURES

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Isolate spill area and deny entry to unauthorized persons. Wear proper protective equipment (see Section 8) to prevent exposure to the spilled material. Stop the source of the leak if you can do so without risk. Ventilate the area. Dike to contain large spills. For all spills, neutralize with soda ash or lime. Take up with sand or other absorbent material and shovel into clean, dry containers. Cover containers and remove from area for later disposal as regulations permit (See Section 12). Flush spill area thoroughly with water.

## 7. HANDLING AND STORAGE

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Store in original containers away from incompatible materials (See Section 10). Keep containers tightly closed. Do not store in carbon steel or aluminum containers. Prevent exposure to material during handling by wearing appropriate protective equipment (See Section 8).

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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VENTILATION; Provide local exhaust ventilation to meet permissible exposure limits where fumes or vapors may be generated or released.

RESPIRATORY PROTECTION; Air contamination monitoring should be conducted where fumes or vapors may be released or generated. If respiratory protection is required, wear a NIOSH/MSHA approved respirator appropriate for the type of contaminate and the contamination levels found in the workplace.

PROTECTIVE GLOVES; Chemical resistant gloves should be worn during occupational use conditions and for cleaning up spills to prevent skin contact.

EYE PROTECTION; Splash proof, chemical resistant safety goggles should be worn to prevent eye contact with this product during occupational use conditions or when cleaning up spills. Eye wash facility is recommended for the work area or in close proximity.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT; Impervious clothing should be worn during occupational use conditions to prevent skin contact with this product.

PROTECTIVE WORK/HYGIENIC PRACTICES; No special requirements with respect to chemical exposure beyond those noted above. Specific requirements with respect to equipment and applications are the responsibility of the handler/user.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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APPEARANCE; Clear blue liquid.

ODOR; Wintergreen odor

PHYSICAL STATE; Liquid

pH CONCENTRATE; 1.0 (approx.)

VAPOR PRESSURE; Not determined

VAPOR DENSITY; Not determined

BOILING POINT; >200F (>93C)

FREEZING POINT; Not determined

SOLUBILITY IN WATER; Complete

SPECIFIC GRAVITY (Water=1): 1.0738 - 1.0753 @ 15 C

APPARENT DENSITY; 8.95 lbs/gal @ 15 C

%VOLATILES; Approximately 84%

## 10. STABILITY AND REACTIVITY

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CHEMICAL STABILITY; Stable under normal temperatures and pressures.

CONDITIONS TO AVOID; High temperature extremes and contact with incompatible materials.

INCOMPATIBILITY WITH OTHER MATERIALS; Highly reactive with strong bases, metals, metal oxides, hydroxides, mines, carbonates, and alkaline materials in general. Incompatible with cyanides, sulfides, sulfites, and formaldehyde.

OTHER PRECAUTIONS; DO NOT MIX with chlorine bleach, ammonia, or other household cleansers or chemicals. Do not use on chrome, countertops, bathtubs, washbowls, or other enamel surfaces.

HAZARDOUS DECOMPOSITION PRODUCTS; Thermal decomposition may release corrosive hydrogen chloride.

HAZARDOUS POLYMERIZATION; Has not been reported to occur under normal temperatures and pressures.

#### 11. HEALTH HAZARD INFORMATION

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The acute health effects described below are those which could potentially occur for the finished product. They are based on the toxicology information available for the finished product and/or each hazardous ingredient, and are consistent with the product type and the likelihood of a specific route of exposure. Known chronic health effects related to exposure to a specific ingredient are indicated.

EYE EFFECTS; May cause burns with impairment or permanent loss of vision. Symptoms may include pain, tearing and photophobia.

SIDE EFFECTS; May cause irritation and chemical burns.

ACUTE ORAL EFFECTS; May cause mucous membrane and circumpolar burns, excess drooling, difficulty in swallowing, pain upon swallowing, vomiting of blood, abdominal pain, perforation of the esophagus and gastrointestinal tract, necrosis of the stomach, respiratory distress (secondary to epiglottal swelling), shock, renal failure, and death.

INHALATION EFFECTS; Fumes may cause irritation with possible burns of the mucous membranes of the upper respiratory tract, conjunctivitis, bronchitis, immediate pain and coughing, choking, headache, dizziness, weakness, chemical pneumonitis, and pulmonary edema.

#### 12. DISPOSAL CONSIDERATIONS

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Dispose of spilled or waste product in accordance with all local, state and federal environmental regulations. State and local regulations may differ from federal. Be sure to consult with appropriate agencies for specific rules.

#### 13. TRANSPORTATION INFORMATION

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D.O.T. SHIPPING NAME; See product name.  
D.O.T. / E.P.A. HAZARD CLASS; ORM-D / Pesticide  
APPLICABLE REGULATIONS; EPA 40 CFR 156,157,162; DOT 49 CFR 172,173.154, 173.156.

#### 14. REGULATORY INFORMATION

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The ingredients in this product are reported in the U.S. EPA TSCA Inventory List.

CERCLA (40 CFR 302.4): Components present in this product at a level which could require reporting are;  
Hydrochloric Acid (hydrogen chloride) - RQ: 5000 pounds.

SARA TITLE III

Section 302, Extremely Hazardous Substances; None

Section 311/312, Hazard Category; Immediate (acute)

Section 313; Toxic chemical - This product is exempt from supplier notification.

SUPERSEDES DATE; 02/26/01

REASON FOR REVISION; Add Thick Formula.

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