



ZEP MANUFACTURING COMPANY
 Acuity Specialty Products Group, Inc.
 P.O. BOX 2015
 ATLANTA, GA 30301
 1-877-1-BUY-ZEP

Material Safety Data Sheet and Safe Handling and Disposal Information

Section 1. Chemical Product and Company Identification

Product name ZEP-O-SAN

Product Use Toilet Bowl Cleaner and Disinfectant

Product Code 1183

Date of issue 01/19/99 **Supersedes** 03/09/89

This product is a registered pesticide. Number: 1270-29

Emergency Telephone Numbers **For MSDS Information:**
 Acuity Specialty Products Group, Inc.
Compliance Services 1-877-1-BUY-ZEP

For Medical Emergency:
 INFOTRAC
(877) 541-2016 Toll Free - All Calls Recorded

For a Transportation Emergency:
 CHEMTREC
(800) 424-9300 - All Calls Recorded
In the District of Columbia (202) 483-7616

Printing date: 09/22/03

Prepared by Compliance Services Group
 Acuity Specialty Products Group
 1420 Seaboard Industrial Blvd.
 Atlanta, GA 30318

Section 2. Composition, Information on Ingredients

Name of Hazardous Ingredients	CAS #	% by Weight	Exposure Limits
HYDROCHLORIC ACID; muriatic acid; hydrogen chloride	7647-01-0	20-30	ACGIH (United States). TWA: 5 ppm OSHA (United States). CEIL: 5 ppm

Section 3. Hazards Identification

Acute Effects **Routes of Entry** Skin Eye contact. Inhalation. Ingestion.

Skin Corrosive to skin on contact. Skin contact may produce burns.

Eyes Corrosive to eyes on contact. Direct contact with the eyes can cause irreversible damage including blindness.

Inhalation Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath.

Ingestion May be fatal if swallowed. May cause burns to mouth, throat and stomach.

HMIS	
Health	3
Fire Hazard	0
Reactivity	0
Personal Protection	D q

Carcinogenic Effects Ingredients: Not listed as carcinogen by OSHA, NTP or IARC.

Chronic Effects Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection.

See Toxicological Information (section 11)

Section 4. First Aid Measures

Eye Contact Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Check for and remove any contact lenses. Get medical attention immediately.

Skin Contact In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Get medical attention immediately.

Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If affected person is conscious, give plenty of water to drink. Get medical attention immediately.

Section 5. Fire Fighting Measures

Flash Point Not applicable. **Flammable Limits** Not applicable.

Flammability Non combustible.

Fire Hazard May emit toxic fumes under fire conditions. Hydrogen Chloride (HCl)

Fire-Fighting Procedures Wear special protective clothing and positive pressure, self-contained breathing apparatus.



Section 6. Accidental Release Measures

Spill Clean up Put on appropriate personal protective equipment (see Section 8). Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. To clean the floor and all objects contaminated by this material, use Detergent. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Section 7. Handling and Storage

Handling Do not get in eyes, on skin, or on clothing. Avoid breathing vapors or spray mists. Do not ingest. Use only with adequate ventilation. Keep container closed. Wash thoroughly after handling. Wash contaminated clothing before reusing.

Storage Keep container tightly closed. Keep container in a cool, well-ventilated area. Store between 40°F - 120°F (4.4°C - 49°C). Keep out of the reach of children.

Section 8. Exposure Controls, Personal Protection**Personal Protection**

Eyes Splash goggles. Face shield.

Body Chemical resistant gloves. Neoprene gloves. Nitrile gloves. Latex gloves. chemical resistant apron. Chemical resistant boots

Protective Clothing (Pictograms)

Respiratory Ventilation is normally required when handling or using this product. Wear appropriate respirator when ventilation is inadequate. Approved/certified respirator with acid gas cartridges.

Section 9. Physical and Chemical Properties

Physical State	Liquid. (Thin liquid)	Color	White.
pH	Acidic.	Odor	Acidic.
Boiling Point	107.22°C (225°F)	Vapor Pressure	Not applicable.
Specific Gravity	1.11 (Water = 1)	Vapor Density	Not applicable.
Solubility	Easily soluble in cold water, hot water.	Evaporation Rate	1 compared to Water
		VOC (Consumer)	0 (g/l).

Section 10. Stability and Reactivity

Stability and Reactivity The product is stable.

Incompatibility Reactive with oxidizing agents, metals, alkalis.

Hazardous Polymerization Will not occur.

Hazardous Decomposition Products Hydrogen Chloride (HCl)

Section 11. Toxicological Information

Toxicity to Animals **Hydrochloric Acid:**

ORAL (LD50): Acute: 900 mg/kg [Rat].

VAPOR (LC50): Acute: 4701 ppm 0.5 hour(s) [Rat].

Section 12. Ecological Information

Ecotoxicity Not available.

Biodegradable/OECD Not available.

Section 13. Disposal Considerations

Waste Information Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Waste Stream Code: D002
Classification: - (Hazardous waste.)
Origin: - (RCRA waste.)

Consult your local or regional authorities.

Section 14. Transport Information

Proper shipping name Corrosive liquid, acidic, inorganic, n.o.s. (Hydrochloric Acid) , or Consumer Commodity ORM-D in limited quantities

DOT Classification Class 8: Corrosive liquid. **UN number** 3264

Section 15. Regulatory Information

U.S. Federal Regulations SARA 313 toxic chemical notification and release reporting: No products were found.
Clean Water Act (CWA) 311: Hydrochloric Acid
Clean air act (CAA) 112 regulated toxic substances: Hydrochloric Acid

Section 16. Other Information

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.