



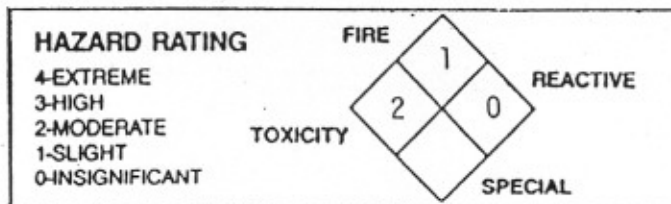
Material Safety Data Sheet

SECTION I — IDENTITY AND MANUFACTURER'S INFORMATION

Manufacturer's Name	James Varley & Sons, Inc.	Product Name	Clinger Bowl Cleaner
Address	1200 Switzer Avenue St. Louis, Missouri 63147	Date Prepared	February 15, 1988
Emergency Telephone No. And Other Information Calls	314-383-4372		

SECTION II — HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components (Specific Chemical Identity: Common Name(s))	CAS #'s	ACGIH TLV	Listed as a Carcinogen in NTP	% (Optional)
Hydrochloric Acid	7647-01-0	5ppm	No	<7%



SECTION III — PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	210°F	Specific Gravity (H ₂ O = 1)	1.025
Vapor Pressure (mm Hg.)	N/A	Percent Volatile By Volume (%)	> 90
Vapor Density (AIR = 1)	N/A	Evaporation Rate (___ WATER ___ = 1)	1
Solubility in Water	Complete	Appearance and Oodor	colored, opaque scented liq

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	210°F Closed Cup	Flammable Limits	LEL	N/A	UEL	N/A'
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Extinguishing Media Water, foam or dry chemicals

Special Fire Fighting Procedures Water spray may be used to cool fire exposed containers. Wear self contained breathing apparatus and full protective clothing.

Unusual Fire and Explosion Hazards Non flammable, but hydrochloric acid reacts with common metals forming hydrogen gas which may cause fire or explosion.

SECTION V — PHYSICAL HAZARDS

Stability Unstable Conditions to Avoid Keep away from oxidizing agents

Incompatibility (Materials to Avoid) Cyanides, alkalis, common metals

Hazardous Decomposition Products Or Byproducts N/A

Hazardous Polymerization May Occur Will Not Occur Conditions To Avoid N/A

SECTION VI — HEALTH HAZARD DATA

Route(s) of Entry: EYES: Yes Inhalation? No Skin? Yes Ingestion? Yes

Signs and Symptoms of Exposure Causes severe burns to eyes, skin, lung tissue, etc.

Emergency and First Aid Procedures
EYES: Flush with plenty of water for at least 15 minutes.
SKIN: Wash with soap and water. INHALATION: Remove patient to fresh air.
INGESTION: Drink plenty of water. In all cases get medical attention.**SECTION VII — PRECAUTIONS FOR SAFE HANDLING AND USE**

Steps To Be Taken In Case Material Is Released Or Spilled Use protective equipment to avoid breathing of vapors or skin contact. Neutralize spill with soda ash. Flush area with water.

Waste Disposal Method

Dispose of in accordance with government regulations.

Precautions To Be Taken In Handling And Storing

Store in cool place.

Other Precautions

KEEP OUT OF REACH OF CHILDREN

SECTION VIII — CONTROL MEASURES

Respiratory Protection (Specify Type)

Ventilate to keep air below TLV
Ventilation Local Exhaust Mechanical (General) Special Other
Yes Yes No No

Protective Gloves Acid resistant rubber gloves Eye Protection Chemical safety goggles

Other Protective Clothing Or Equipment Wear clothing to reduce contact with skin.

Work/Hygienic Practices Wash thoroughly after use.

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