Product Distributed by Rio Grande
Rio Stk# 331-053
MSDS access on web: www.riogrande.com

Chemtel emergency# 1-800-255-3924

Material Safety Data Sheet

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Section 1 – Product Identification

Product Name: Midas Black Max
Synonyms: Gold and Silver Oxidizer

Section 2 – Hazardous Ingredients

Component	*%*	*CAS*	*ACGIH TLV*	*OSHA PEL*	*TSCA?*
Hydrochloric acid	<40	7647-01-0	5 ppm	5 ppm	yes
Tellurium Dioxide	<5	7446-07-3	0.1mg/m3 (Te)	0.1mg/m3 (Te)	yes

Section 3 – Physical Properties

Vapor pressure (mm Hg): n/a
Vapor Density (air = 1): n/a
Evaporation Rate (butyl acetate = 1): n/a
% Volatiles: n/a
Appearance: clear, pale yellow liquid
Odor: sharp, pungent, irritating

Specific Gravity: 1.095
Boiling Point: n/a
Melting/Freezing point: n/a
Solubility in Water: complete
pH: < 1

Section 4 – Fire and Explosion Data

Flash Point (F): Does not burn
Autoignition Temperature (F): n/a
Flammability Limits in Air (%) Upper (UEL): n/a
Lower (LEL): n/a
Extinguishing media: Select media to fight surrounding fire.

Special Firefighting Procedures: Fire fighters should wear full turnout gear and self-contained breathing apparatus (SCBA).

Unusual Fire or Explosion Hazards: Contact with some metals will generate hydrogen gas.

Section 5 – Reactivity Data

Stability: Stable
Hazardous Polymerization: Will not occur
Conditions to Avoid: Heat, contact with incompatibles
Incompatible Materials: Cyanides, sulfides, strong bases, oxidizers, zinc, aluminum, magnesium.
Hazardous Byproducts of Decomposition: Hydrogen chloride fumes, toxic tellurium fumes, hydrogen gas, chlorine gas

Section 6 – Health Hazard Data

Routes of Entry: ***Inhalation?*** Y ***Skin?*** Y ***Ingestion?*** Y

Acute: Irritation to severe burns to skin, eye, lung, or gastrointestinal tissues. Also, garlic odor of breath and sweat, metallic taste, headache, nausea, convulsions.

Chronic: Liver and lung damage, contact dermatitis, tooth erosion.

Carcinogenicity:

ACGIH?	N
NTP?	N
IARC monographs?	N
OSHA regulated?	N

Medical Conditions Aggravated by Exposure: respiratory problems.

Section 7 – First Aid Procedures

Eye Contact: Immediately flush with water for 15 minutes. Seek medical attention.

Skin Contact: Wash with soap and water. Remove contaminated clothing. If exposure is severe, seek medical attention.

Inhalation: Remove victim to fresh air. Restore breathing if necessary. If breathing is difficult give oxygen. Seek medical attention.

Ingestion: Seek medical attention immediately. If conscious, give two or three glasses of water, then milk of magnesia or lime water. DO NOT INDUCE VOMITING.

Section 8 – Precautions for Safe Handling and Use

In Case of Spill or Leak: First, neutralize with sodium bicarbonate or lime, then flush to waste treatment system (not sewer) or absorb onto chemical absorbent and sweep into suitable container for disposal.

Waste Disposal: State and Federal regulations apply. Contact a hazardous waste disposal company.

Handling: Wear appropriate protective equipment. Good local ventilation or fume hood is preferred. Do not breathe fumes. Wash hands after handling product.

Storage: Keep lid tightly sealed. Store in a cool dry place away from incompatibles or metals.

Section 9 – Personal Protection Information

Respiratory: NIOSH approved respirator for acid gas if airborne concentrations exceed TLV or are unknown.

Eye/Face: Chemical safety goggles

Hands/Body: Neoprene or rubber gloves and apron

Other: Emergency eyewash station and safety shower

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