

# **Safety Data Sheet**

## Better Chemistry. Better Business

## MI-TIQUE® GREEN T 2

**Revised:** 5/20/15

## **IDENTIFICATION**

Product Code:2300006

Recommended use of the chemical and restrictions on use:Industrial applications

**Hubbard-Hall Inc.** 

563 South Leonard Street Waterbury, CT 06708 **Telephone**: 203-756-5521 **Fax number:** 203-756-9017

Emergency Phone Number **CHEMTREC:** 1 (800) 424-9300 **International:** 1 (703) 527-3887

## 2 HAZARDS IDENTIFICATION





Signal Word: DANGER

Hazard Category: Skin Corrosion/Irritation Hazard Category 1A

Eye Damage/Irritation Hazard Category 1 Corrosive to Metals Hazard Category 1

Hazard Statements: Causes severe skin burns and eye damage.

May be corrosive to metals.

Prevention: Wash skin thoroughly after handling.

Wear rubber gloves, goggles and chemical protective clothing.

Keep only in original container.

Response: If on skin (or hair): Take off immediately all contaminated clothing Rinse skin with

water/shower.

Wash contaminated clothing before reuse.

Specific treatment - refer to poison center or doctor for advice.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Absorb spillage to prevent material damage.

If exposed or concerned: Get medical advice/attention.

Storage: Store locked up.

Store in corrosive resistant high density polyethylene container.

Disposal: Dispose of contents/container in accordance with local, regional, national, or

international regulations.

## **COMPOSITION INFORMATION**

Chemical Name	Common Name And Synonyms	CAS No. and other Unique identifiers	Concentration %
Ammonium Hydroxide	Ammonia	7664-38-2	<7%
Ammonium Chloride	-	12125-02-9	15-20%
Copper Acetate	-	142-71-2	~4%
Ammonium Dimolybdate	-	27546-07-2	<5%

#### 4 FIRST AID

#### After Inhalation:

Remove exposed person to fresh air and support breathing as needed.

## **After Skin Contact:**

Immediately remove contaminated clothing under a safety shower. Flush all affected areas with large amounts of water for 15 minutes. DO NOT attempt to neutralize with chemical agents. Obtain medical advice.

## After Eye Contact:

Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Call a physician or poison control center immediately.

## After Ingestion:

Call a physician or poison control center immediately. Do not induce vomiting. Immediately rinse mouth and drink plenty of water. If vomiting occurs, keep head low so that the stomach content doesn't get into the lungs. Never give anything by mouth to an unconscious person. Do not use mouth-to-mouth method if victim ingested the substance.

## Most Important Symptoms/Effects

#### Inhalation:

Symptons may include irriitation to the nose, throat and upper respiratory tract.

#### Inhalation:

Selenium dusts produce respiratory tract irritation manifested by nasal discharge, loss of smell, epitaxis, and cough. A group of workers exposed to undetermined amounts of selenium oxide developed severe irritation of the eyes, nose, and throat, followed by headchaches.

# Eye:

Adverse symptons may include the following: Symptons may include redness, pain, blurred vision, eye burns and permanent eye damage.

## Skin:

Adverse symptons may include the following: May cause redness, pain and severe skin burns.

## Ingestion:

Adverse symptons may include the following: Symptons may include severe burns of the mouth, throat and stomach. Ingestion of large quantities may cause gastrointestinal irritation, vomiting and diarrhea.

## 5 FIRE FIGHTING MEASURES

Suitable and Unsuitable extinguishing media:

Will not burn or support combustion. Use extinguishing media appropriate for surrounding fire, such as water spray, dry chemical, foam or carbon dioxide.

Special protective equipment and precautions for firefighter

Fire fighters should enter area only if they are protected from all contact with the materail. Full protective clothing, including self-contained breathing apparatus, coat, pants, gloves, boots and bands around legs, arms, and waist, should be worn. No skin surfaces should be exposed.

## **6 ACCIDENTAL RELEASE MEASURES**

Personal Precautions, Protective Equipment, & **Emergency Proc** 

Wear chemical goggle, gloves and face shield and protective clothing.

Prevent spilled product from drains, sewers, waterways and soil.

**Methods and Materials for** containment & cleaning up: Absorb the chemical onto sand, vermiculite, or any other non-combustible absorbent, and

collect into containers for later disposal.

## **HANDLING AND STORAGE**

Avoid breathing dust, fumes, gas, mist, vapors and sprays. Precautions for safe handling:

Wash hands thoroughly after handling.

Do not get in eyes, or on skin, or on clothing.

Conditions for safe storage, inc any incompatibilities:

Keep container tightly closed.

Do not allow material to freeze.

Store in corrosive resistant container.

## **EXPOSURE CONTROLS / PERSONAL PROTECTION**

Name	Std.	TWA-8hrs	STEL - 15 min.
Ammonium Hydroxide	ACGIH	25 ppm	35 ppm
Ammonium Chloride	ACGIH	10 mg/m3	20 mg/m3
Copper Acetate	Not established		
Ammonium Dimolybdate	ACGIH	5 mg/m3 as molybdenum	

**ACGIH - American Control of Governmental Hygenists OSHA - Occupational Safety and Health Administration** 

Ventilation: Use local exhaust to keep personal exposures below the OSHA Permissible Exposure Limit (s)

(PEL) or the ACGIH threshold Limit Values (TLV)Time Weight Average (TWA).

Not required if proper ventilation controls are employed. **Respiratory Protection:** 

**Protective Gloves:** Acid resistant rubber.

Wear chemical safety goggles. **Eye Protection:** 

## PHYSICAL AND CHEMICAL PROPERTIES

Clear blue liquid Appearance: Odor: ammonia smell

**Odor Threshold:** N/A PH: 9-10 N/A **Melting Point/Freezing Point:** 

**Initial Boiling Point and Boiling** 

Range:

N/A

N/A Flash Point: **Evaporation Rate:** N/A N/A Flammability (solid, gas): N/A Upper/Lower flammability or

explosive limits:

N/A

Vapor Pressure:

Vapor Density: N/A

Relative Density: 1.08-1.10

Solubility (ies): Complete in water

Partition Coefficient; N/A

n-octanol/water:

Auto-ignition Temperature:N/ADecomposition Temperature:N/AViscosity:N/A

#### 10 STABILITY AND REACTIVITY

**Reactivity:** No specific test data related to reactivity vavailable to this product or its ingredients.

Chemical Stability: Stable under normal conditions

Corrosive in presence of steel

**Possibility of Hazardous** 

Reacts violently with strong bases. Contact with metals may release flammable hydrogen gas.

Reactions:

Conditions to Avoid: Extreme humidity, excess heat.

Incompatible Materials: Avoid contact with strong oxidizers and strong acids.

Hazardous Decomposition Thermal decomposition products include oxides of nitrogen.

**Products:** 

## 11 TOXICOLOGICAL INFORMATION

Oral Administration: Ammonium Chloride-LD50(Rat)-1650 mg/kg
Oral Administration: Copper Acetate LD50(Rat)-501 mg/kg

Inhalation: Ammonium Hydroxide-LC50-(Rat)-2000 ppm / 4 hr
Immediate effects: Irritation or burns to skin, eyes and respiratory system

Not known

Routes of Exposure Eyes, Skin, Inhalation, Ingestion

# 12 ECOLOGICAL INFORMATION

**Crustations, Daphnia magna,** no data available **Persistence and** Not Available

Degradability:

Bioaccumulation potential: Not known

Soil/Sediment Result: Pronounced solubility and mobility

Other adverse effects(such

as hazardous to the ozone layer):

13 DISPOSAL CONSIDERATION

Dispose of in accordance with local, state and federal regulations.

## 14 TRANSPORT INFORMATION

UN Number: 1760

UN Proper Shipping Name: CORROSIVE LIQUIDS, NOS (AMMONIUM HYDROXIDE)

Transport Hazard Class (es): 8
Packing Group: III
ERG: 154

# 15 REGULATORY INFORMATION

HMIS: Health: 2 Flammability: 0 Reactivity: 0

Cercla Ammonium Chloride-RQ=5000 lbs
Cercla Ammonium Hydroxide-RQ=1000 lbs

# **16 OTHER INFORMATION**

Disclaimer:

The information is based on our knowledge to date but does not constitute an assurance of product properties and does not imply a legal contractual relationship.