

# SAFETY DATA SHEET

Issuing Date 14-Aug-2015 Revision Date 14-Aug-2015 Revision Number 1

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product Identifier** 

Product Name/Catalog ID AAAU1

Other means of identification

Product Description 1000 μg/mL Gold

Recommended use of the chemical and restrictions on use Recommended Use Laboratory chemicals.

Uses advised against No information available

Details of the supplier of the safety data sheet

Company

Inorganic Ventures 300 Technology Drive Christiansburg, VA 24073 web: www.inorganicventures.com

E-mail Address info@inorganicventures.com

**Emergency Telephone Number** 

Chemtrec 1-800-424-9300 (US) Canutec - 1-613-996-6666 (Canada)

## 2. HAZARDS IDENTIFICATION

## GHS

#### Classification

Skin corrosion/irritation Category 2

## **Label Elements**

## Warning

### Hazard Statements

Causes skin irritation



Appearance Clear / Yellow

Physical State Liquid

Odor Slight chlorine

#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection

#### **Precautionary Statements - Response**

#### Skin

IF ON SKIN: Wash with plenty of soap and water If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse

<u>Hazards not otherwise classified (HNOC)</u>
Other Information

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Hydrochloric acid	7647-01-0	10

## 4. FIRST AID MEASURES

**First Aid Measures** 

General Advice If symptoms persist, call a physician.

Eye Contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Do not rub

affected area. If symptoms persist, call a physician.

**Skin Contact**Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes. If skin irritation persists, call a physician.

**Inhalation** Move to fresh air. Artificial respiration and/or oxygen may be necessary. Avoid direct

contact with skin. Use barrier to give mouth-to-mouth resuscitation. If symptoms persist,

call a physician.

**Ingestion** Do NOT induce vomiting. Clean mouth with water and afterwards drink plenty of water.

Never give anything by mouth to an unconscious person. Consult a physician.

**Protection of First-aiders**Use personal protective equipment. Avoid contact with skin, eyes and clothing.

Most important symptoms and effects, both acute and delayed

Most Important Symptoms/Effects Difficulty breathing.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically

## 5. FIRE-FIGHTING MEASURES

#### **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** Decomposition by contact with water may generate vapors which can be ignited by heat or open flame.

#### Special Exposure Hazards Arising from the Substance/Mixture

The product causes irritation of eyes, skin and mucous membranes Thermal decomposition can lead to release of irritating gases and vapors

**Explosion Data** 

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

#### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Ensure

adequate ventilation. Use personal protective equipment. Do not get in eyes, on skin, or on

clothing.

Other Information Refer to protective measures listed in Sections 7 and 8.

**Environmental Precautions** 

**Environmental Precautions** Prevent further leakage or spillage if safe to do so. Do not flush into surface water or

sanitary sewer system. Prevent product from entering drains. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Methods and material for containment and cleaning up

Methods for Cleaning up Dam up. Neutralise with lime; soda. Soak up with inert absorbent material. Sweep up and

shovel into suitable containers for disposal. After cleaning, flush away traces with water.

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling** 

Handling Wear personal protective equipment. Ensure adequate ventilation. In case of insufficient

ventilation, wear suitable respiratory equipment. Do not get in eyes, on skin, or on clothing.

Do not breathe vapors or spray mist.

Conditions for safe storage, including any incompatibilities

**Technical measures/Precautions** Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible Products None known based on information supplied.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

**Exposure Guidelines** 

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hydrochloric acid 7647-01-0	Ceiling: 2 ppm	(vacated) Ceiling: 5 ppm (vacated) Ceiling: 7 mg/m³ Ceiling: 5 ppm Ceiling: 7 mg/m³	IDLH: 50 ppm Ceiling: 5 ppm Ceiling: 7 mg/m³

## **Appropriate engineering controls**

**Engineering Measures** Ensure adequate ventilation, especially in confined areas.

### Individual protection measures, such as personal protective equipment

**Skin and Body Protection** 

Hand Protection

Respiratory Protection

Long sleeved clothing Boots

Impervious gloves

When workers are facing concentrations above the exposure limit they must use

appropriate certified respirators If exposure limits are exceeded or irritation is experienced,

NIOSH/MSHA approved respiratory protection should be worn

#### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use. Contaminated work clothing should not be allowed out of the workplace. Provide regular cleaning of equipment, work area and clothing.

## Section 9: Physical and chemical properties

## Information on basic physical and chemical properties

Physical StateLiquidAppearanceClear / YellowOdorSlight chlorine

<u>Property</u> <u>Values</u>

pH VALUENo data availableMelting Point/RangeNo data available

Boiling Point/Range 100 °C Flash Point Not applicable **Evaporation rate** No data available Flammability (solid, gas) No data available **Vapor Pressure** No data available No data available **Vapor Density Relative Density** No data available **Specific Gravity** No data available

Water Solubility Miscible

Partition coefficient: n-octanol/waterNo data availableAutoignition TemperatureNo data availableDecomposition TemperatureNo data availableViscosityNo data available

**Explosive Properties**No information available **Oxidizing Properties**No information available

Other information

VOC Content No information available.

## 10. STABILITY AND REACTIVITY

#### Reactivity

No data available.

#### **Chemical Stability**

Stable under recommended storage conditions.

## **Possibility of Hazardous Reactions**

None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

#### **Conditions to Avoid**

Extremes of temperature and direct sunlight.

## Incompatible Materials

Reducing agents

#### **Hazardous Decomposition Products**

Hydrogen chloride.

## 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Product Information Irritating to eyes Irritating to skin Irritating to respiratory system.

**Inhalation** Vapors may be irritating to eyes, nose, throat, and lungs.

Eye Contact Irritating to eyes.

Skin Contact Irritating to skin.

**Ingestion** Ingestion may cause irritation to mucous membranes.

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hydrochloric acid	= 700 mg/kg (Rat)	> 5010 mg/kg (Rabbit)	= 3124 ppm (Rat) 1 h
7647-01-0 ( 10 )			

#### Information on toxicological effects

**Symptoms** No information available.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

SensitizationNo information available.Mutagenic EffectsNo information available.

Carcinogenic effects

Reproductive Toxicity
STOT - single exposure
STOT - repeated exposure
Target Organ Effects
Aspiration Hazard
No information available.
No information available.
Eyes, Respiratory system, Skin.
No information available.

### Numerical measures of toxicity - Product Information

## The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 7000 mg/kg
ATEmix (dermal) 50150 mg/kg
ATEmix (inhalation-dust/mist) 5 mg/L
ATEmix (inhalation-vapor) 30 mg/L

## 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

### **Ecotoxicity effects**

0.2% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Hydrochloric acid 7647-01-0		282: 96 h Gambusia affinis mg/L LC50 static		

#### Persistence and Degradability

No information available.

#### **Bioaccumulation/Accumulation**

No information available.

#### Other Adverse Effects

## 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Waste from Residues/Unused

**Products** 

Dispose of in accordance with federal, state and local regulations

**Contaminated Packaging** Do not re-use empty containers.

Chemical Name	California Hazardous Waste Status
Hydrochloric acid	Toxic
7647-01-0	Corrosive
	Reactive

# **Section 14: Transport information**

IMDG/IMO

**14.1. UN-No** UN3264

**14.2. Proper Shipping Name** Corrosive liquid, acidic, inorganic, n.o.s

**14.3. Hazard Class** 8 **14.4. Packing Group** III

**Description** Not applicable.

**14.5. Marine Pollutant** None. **14.6. Special Provisions** None

**14.7. Transport in bulk according** No information available.

to Annex II of MARPOL 73/78 and

the IBC Code

RID

**14.1. UN-No** UN3264

**14.2. Proper Shipping Name** Corrosive liquid, acidic, inorganic, n.o.s

**14.3. Hazard Class** 8 **14.4. Packing Group** III

**Description** Not applicable.

**14.5. Environmental hazard** None **14.6. Special Provisions** None

ADR

**14.1. UN-No** UN3264

**14.2. Proper Shipping Name** Corrosive liquid, acidic, inorganic, n.o.s

14.3. Hazard Class 8
14.4. Packing Group III

**Description** Not applicable.

14.5. Environmental hazard None 14.6. Special Provisions None

**ICAO** 

**14.1. UN-No** UN3264

**14.2. Proper Shipping Name** Corrosive liquid, acidic, inorganic, n.o.s

14.3. Hazard Class 8
14.4. Packing Group

**Description** Not applicable.

**14.5. Environmental hazard** None **14.6. Special Provisions** None

IATA-DGR

**14.1. UN-No** UN3264

**14.2. Proper Shipping Name** Corrosive liquid, acidic, inorganic, n.o.s

14.3. Hazard Class 8
14.4. Packing Group III

**Description** Not applicable

14.5. Environmental hazard None14.6. Special Provisions None

## 15. REGULATORY INFORMATION

**International Inventories** 

Complies **TSCA DSL/NDSL** Complies Complies **EINECS/ELINCS** Complies **ENCS IECSC** Complies **KECL** Complies **PICCS** Complies Complies **AICS** 

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

## U.S. Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

#### SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

### **Clean Water Act**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Hydrochloric acid	5000 lb			X
7647-01-0				

## CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Hydrochloric acid 7647-01-0	5000 lb	5000 lb	RQ 5000 lb final RQ RQ 2270 kg final RQ

## U.S. State Regulations

## **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

#### U.S. State Right-to-Know Regulations

Chemical Name New Jersey Massachusetts Pennsylvania
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TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

Hydrochloric acid	X	X	X
7647-01-0			

## U.S. EPA Label Information

# 16. OTHER INFORMATION

Revision Date Revision Note

14-Aug-2015

No information available

**Disclaimer** 

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of MSDS**