

# **SAFETY DATA SHEET**

Issuing Date 02-Sep-2015

Revision Date 02-Sep-2015

**Revision Number** 1

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

Product Identifier Product Name/Catalog ID	AASC1
Other means of identification Product Description	1000 µg/mL Scandium
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**

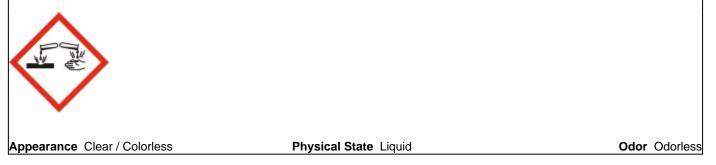
Skin corrosion/irritation	Category 1 Sub-category A
Serious Eye Damage/Eye Irritation	Category 1

#### Label Elements

## Danger

## Hazard Statements

Causes severe skin burns and eye damage



### **Precautionary Statements - Prevention**

Do not breathe dust/fume/gas/mist/vapors/spray Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection

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

#### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

#### Skin

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse

#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Immediately call a POISON CENTER or doctor/physician

Indestion

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

#### **Precautionary Statements - Storage**

Store locked up

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

## Hazards not otherwise classified (HNOC)

Other Information

## **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS-No	Weight %
Nitric acid	7697-37-2	7

4. FIRST AID MEASURES		
First Aid Measures		
General Advice	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.	
Eye Contact	Immediate medical attention is required. 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.	
Skin Contact	Immediate medical attention is required. Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.	
Inhalation	Call a physician or Poison Control Center immediately. Move to fresh air. If breathing is difficult, give oxygen. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.	
Ingestion	Immediate medical attention is required. Do NOT induce vomiting. Clean mouth with water and afterwards drink plenty of water. Never give anything by mouth to an unconscious person.	
Protection of First-aiders	Use personal protective equipment. Avoid contact with skin, eyes and clothing.	
Most important symptoms and effe	ects, both acute and delayed	

## Most Important Symptoms/Effects Burn. Difficulty breathing.

#### Indication of any immediate medical attention and special treatment needed

Notes to Physician

Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure

## **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 burns 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.
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 containme	ent and cleaning up_
Methods for Cleaning up	Dam up. Neutralise with lime milk; 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	

HandlingWear personal protective equipment. Ensure adequate ventilation. In case of insufficient<br/>ventilation, wear suitable respiratory equipment. Do not get in eyes, on skin, or on clothing.<br/>Do not breathe vapors or spray mist.

#### Conditions for safe storage, including any incompatibilities

<b>Technical measures/Precautions</b>	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
Nitric acid 7697-37-2	4 ppm STEL TWA: 2 ppm	TWA: 2 ppm TWA: 5 mg/m <sup>3</sup> (vacated) TWA: 2 ppm (vacated) TWA: 5 mg/m <sup>3</sup> (vacated) STEL: 4 ppm (vacated) STEL: 10 mg/m <sup>3</sup>	IDLH: 25 ppm TWA: 2 ppm TWA: 5 mg/m <sup>3</sup> STEL: 4 ppm STEL: 10 mg/m <sup>3</sup>
Appropriate engineering contro	bls	(1404104) 01221 10 mg/m	
Engineering Measures	Ensure adequate ventilation	, especially in confined areas.	
Individual protection measures	, such as personal protective ec	uipment	
Eye Protection Skin and Body Protection Hand Protection Respiratory Protection	appropriate certified respirat		d or irritation is experienced,
Hygiene Measures	Handle in accordance with g gloves and eye/face protecti or smoke when using this pr handling the product. Remo	ood industrial hygiene and safety p on. Avoid contact with skin, eyes a oduct. Wash hands before breaks ve and wash contaminated clothing should not be allowed out of the w	practice. Wear suitable and clothing. Do not eat, drin and immediately after g before re-use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical State Appearance Odor

Property pH VALUE Melting Point/Range Boiling Point/Range Evaporation rate Flammability (solid, gas) Vapor Pressure Vapor Density Relative Density Specific Gravity Water Solubility Partition coefficient: n-octanol/water Autoignition Temperature Decomposition Temperature Viscosity

Explosive Properties Oxidizing Properties

Other information VOC Content Liquid Clear / Colorless Odorless

#### Values

No data available No data available 100 °C No data available Miscible No data available No data available

No information available No information available

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 None known.

Incompatible Materials Reducing agents

#### **Hazardous Decomposition Products**

Nitrogen oxides (NOx).

## **11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

Product Information	The product causes burns of eyes, skin and mucous membranes.		
Inhalation	Contact with moist mucous membranes of the respiratory system can cause caustic condition resulting in burns. Aspiration may cause pulmonary edema and pneumonitis. Causes burns. Corrosive to respiratory system. Inhaled corrosive substances can lead to a toxic edema of the lungs.		
Eye Contact	Causes burns.		
Skin Contact	Causes burns.		
Ingestion	Can burn mouth, throat, and stomach.		

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Nitric acid	-	-	= 130 mg/m <sup>3</sup> (Rat) 4 h = 67
7697-37-2 (7)			ppm (Rat)4h

#### Information on toxicological effects

Symptoms

No information available.

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

Sensitization	No information available.
Mutagenic Effects	No information available.
Carcinogenic effects	

Chemical Name	ACGIH	IARC	NTP	OSHA	
Nitric acid		Group 2A		Х	
7697-37-2		-			
Reproductive Toxicity	No information available.				
STOT - single exposure	No information available.				
STOT - repeated exposure	No information available.				
Target Organ Effects	Skin, Eyes, Respiratory system.				
Aspiration Hazard	No information available.				

Numerical measures of toxicity - Product Information

#### The following values are calculated based on chapter 3.1 of the GHS document . ATEmix (inhalation-dust/mist) 311.4 mg/L ATEmix (inhalation-vapor)

957 mg/Ľ

## **12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

#### **Ecotoxicity effects**

0.1% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Che	emical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
	Nitric acid 7697-37-2		72: 96 h Gambusia affinis mg/L LC50		

#### Persistence and Degradability

No information available.

#### **Bioaccumulation/Accumulation**

No information available.

Chemical Name	Log Pow
Nitric acid	-2.3
7697-37-2	

#### **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
Nitric acid	Toxic
7697-37-2	Corrosive
	Ignitable

## **14. TRANSPORT INFORMATION**

IMDG/IMO 14.1. UN-No 14.2. Proper Shipping Name 14.3. Hazard Class 14.4. Packing Group Description 14.5. Marine Pollutant 14.6. Special Provisions 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	UN3264 Corrosive liquid, acidic, inorganic, n.o.s 8 III Not applicable. None. None No information available.
<u>RID</u> 14.1. UN-No 14.2. Proper Shipping Name 14.3. Hazard Class 14.4. Packing Group	UN3264 Corrosive liquid, acidic, inorganic, n.o.s 8 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 14.3. Hazard Class	Corrosive liquid, acidic, inorganic, n.o.s 8
14.3. Packing Group	
Description	Not applicable.
14.5. Environmental hazard	Nor applicable. None
14.6. Special Provisions	None
	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	None
14.6. Special Provisions	None

## **15. REGULATORY INFORMATION**

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

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

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
Nitric acid 7697-37-2	1000 lb			Х

#### 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
Nitric acid 7697-37-2	1000 lb	1000 lb	RQ 1000 lb final RQ RQ 454 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
Nitric acid	X	Х	X
7697-37-2			

#### U.S. EPA Label Information

## **16. OTHER INFORMATION**

02-Sep-2015

Revision Date Revision Note 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