

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	AACR1
Other means of identification Product Description	1000 µg/mL Chromium
Recommended use of the chemical Recommended Use	and restrictions on use Laboratory chemicals.
Uses advised against	No information available
Details of the supplier of the safety 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
Serious Eye Damage/Eye Irritation	Category 2A

Label Elements

Warning

Hazard Statements Causes skin irritation Causes serious eye irritation



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

Eves

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

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

Hazards not otherwise classified (HNOC) Other Information

3. COMPOSITION/INFORMATION ON INGREDIENTS

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

4. FIRST AID MEASURES				
First Aid Measures				
Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.			
Skin Contact	Wash skin with soap and water.			
Inhalation	Move to fresh air.			
Ingestion	Clean mouth with water and afterwards drink plenty of water.			
Most important symptoms and effe	cts, both acute and delayed			
Most Important Symptoms/Effects	/Effects No information available.			
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

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	Ensure adequate ventilation.				
Environmental Precautions	Environmental Precautions				
Environmental Precautions Prevent further leakage or spillage if safe to do so. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.					
Methods and material for containm	ent 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					
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

ACGIH TLV	OSHA PEL	NIOSH IDLH
4 ppm STEL TWA: 2 ppm	TWA: 2 ppm TWA: 5 mg/m ³ (vacated) TWA: 2 ppm (vacated) TWA: 5 mg/m ³ (vacated) STEL: 4 ppm	IDLH: 25 ppm TWA: 2 ppm TWA: 5 mg/m ³ STEL: 4 ppm STEL: 10 mg/m ³
	4 ppm STEL	4 ppm STEL TWA: 2 ppm TWA: 2 ppm TWA: 5 mg/m ³ (vacated) TWA: 2 ppm (vacated) TWA: 5 mg/m ³

Appropriate engineering controls

Engineering Measures

Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Respiratory Protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

Section 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance Odor Property	Odorless Values
••	5,
Physical State Appearance	Liquid Clear / Dark gray

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 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

Component	LD50 Oral LD50 Dermal LC50 Inhalation					
Ingestion	There is no data available for this product.					
Skin Contact	There is no data available for	There is no data available for this product.				
Eye Contact	There is no data available for	There is no data available for this product.				
Inhalation	There is no data available for	There is no data available for this product.				
Product Information	Product does not present an acute toxicity hazard based on known information					

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

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			
7697-37-2					
Reproductive Toxicity	No information available.				
STOT - single exposure	No information available.				
STOT - repeated exposur	No information available.				
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) 1090 mg/L ATEmix (inhalation-vapor) 3350 mg/L

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects

0.1% 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)
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

Contaminated Packaging

Waste from Residues/Unused	Dispose of in accordance with federal, state and local regulations
Products	

Do not re-use empty containers.

Chemical Name	California Hazardous Waste Status
Nitric acid	Toxic
7697-37-2	Corrosive
	Ignitable

Section 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 Description 14.5. Environmental hazard 14.6. Special Provisions	UN3264 Corrosive liquid, acidic, inorganic, n.o.s 8 III Not applicable. None None
<u>ADR</u> 14.1. UN-No 14.2. Proper Shipping Name 14.3. Hazard Class 14.4. Packing Group Description 14.5. Environmental hazard 14.6. Special Provisions	UN3264 Corrosive liquid, acidic, inorganic, n.o.s 8 III Not applicable. None None
ICAO 14.1. UN-No 14.2. Proper Shipping Name 14.3. Hazard Class 14.4. Packing Group Description 14.5. Environmental hazard 14.6. Special Provisions	UN3264 Corrosive liquid, acidic, inorganic, n.o.s 8 III Not applicable. None None
IATA-DGR 14.1. UN-No 14.2. Proper Shipping Name 14.3. Hazard Class 14.4. Packing Group Description 14.5. Environmental hazard 14.6. Special Provisions	UN3264 Corrosive liquid, acidic, inorganic, n.o.s 8 III Not applicable None None

15. REGULATORY INFORMATION

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

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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	1000 lb			Х
l	7697-37-2				

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	1000 lb	1000 lb	RQ 1000 lb final RQ
7697-37-2			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	Х	X	Х
7697-37-2			
ILS EDA Label Information		•	

U.S. EPA Label Information

16. OTHER INFORMATION

Revision Date
Revision Note
No information available
Disclaimer

14-Aug-2015

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