

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 AADY1

Other means of identification

Product Description 1000 μg/mL Dysprosium

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

web. www.morganicventures.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



Appearance Clear / Colorless

Physical State Liquid

Odor Odorless

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

Ingestion

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

Ingestion

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.

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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.

Most important symptoms and effects, 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 containment 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

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 ProductsNone known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Nitric acid	4 ppm STEL	TWA: 2 ppm	IDLH: 25 ppm
7697-37-2	TWA: 2 ppm	TWA: 5 mg/m ³	TWA: 2 ppm
		(vacated) TWA: 2 ppm	TWA: 5 mg/m ³
		(vacated) TWA: 5 mg/m ³	STEL: 4 ppm
		(vacated) STEL: 4 ppm	STEL: 10 mg/m ³
		(vacated) STEL: 10 mg/m ³	_

Appropriate engineering controls

Engineering Measures Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye Protection Tightly fitting safety goggles Face-shield

Skin and Body Protection Impervious clothing Boots Chemical resistant apron

Hand Protection Impervious gloves

Respiratory Protection 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

Handle in accordance with good industrial hygiene and safety practice. Wear suitable **Hygiene Measures**

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 State Liquid

Clear / Colorless **Appearance** Odor Odorless

Property Values

pH VALUE No data available Melting Point/Range No data available

Boiling Point/Range 100 °C

No data available **Evaporation rate** No data available Flammability (solid, gas) **Vapor Pressure** No data available **Vapor Density** No data available **Relative Density** No data available **Specific Gravity** No data available

Water Solubility Miscible

Partition coefficient: n-octanol/water No data available **Autoignition Temperature** No data available **Decomposition Temperature** No data available **Viscosity** No data available

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

Other information

No information available. **VOC Content**

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.

InhalationContact 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 ³ (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

SensitizationNo information available.Mutagenic EffectsNo information available.

Carcinogenic effects

Chemical Name	ACGIH	IARC	NTP	OSHA
Nitric acid		Group 2A		X
7697-37-2				

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

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects

0.11% 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		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

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 PollutantNone.14.6. Special ProvisionsNone

14.7. Transport in bulk according No information available.

to Annex II of MARPOL 73/78 and

the IBC Code

RIL

14.1. UN-No UN3264

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

14.3. Hazard Class

14.4. Packing Group

Description Not applicable.

14.5. Environmental hazard None14.6. 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 |||

Description Not applicable.

14.5. Environmental hazardNone14.6. Special ProvisionsNone

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 III

Description Not applicable.

14.5. Environmental hazardNone14.6. Special ProvisionsNone

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

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

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

<u>SARA 313</u>

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

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

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	X	X
7697-37-2			

U.S. EPA Label Information

16. OTHER INFORMATION

Revision Date 14-Aug-2015 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