

SAFETY DATA SHEET

Issuing Date 07-Aug-2015 Revision Date 07-Aug-2015 Revision Number 1

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

Product Identifier

Product Name/Catalog ID 82026-136

Other means of identification

Product Description 100 μg/mL Beryllium

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

VWR International, LLC Radnor Corporate Center Building One, Suite 200 P.O. Box 6660 100 Matsonford Road Radnor, PA 19087-8660

Tel: 610-386-1700

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 1
Skin Sensitization	Category 1

Label Elements

Danger

Hazard Statements

Causes skin irritation Causes serious eye damage May cause an allergic skin reaction



Appearance Clear / Colorless

Physical State Liquid

Odor Vinegar-like

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing dust/fume/gas/mist/vapors/spray Contaminated work clothing should not be allowed out of the workplace

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

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	3
Beryllium di(acetate)	543-81-7	0.11

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 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 Immediate medical attention is required. Move to fresh air. Avoid direct contact with skin.

Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, give oxygen. If

breathing is irregular or stopped, administer artificial respiration.

Ingestion 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

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 and toxic 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. 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. 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. Handle product only in closed system or provide appropriate exhaust ventilation

at machinery.

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
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	_
Beryllium di(acetate)	TWA: 0.00005 mg/m ³	TWA: 2 µg/m³	IDLH: 4 mg/m ³
543-81-7	Skin	(vacated) TWA: 2 μg/m ³	Ceiling: 0.0005 mg/m ³
		(vacated) STEL: 25 μg/m ³	
		(vacated) Ceiling: 5 μg/m³	
		Ceiling: 5 µg/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

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

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 State Liquid

Appearance Clear / Colorless
Odor Vinegar-like

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

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

Boiling Point/Range 100 °C

Evaporation rateNo data availableFlammability (solid, gas)No data availableVapor PressureNo data available

Vapor DensityNo data availableRelative DensityNo data availableSpecific GravityNo data available

Water Solubility Miscible

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

Explosive PropertiesNo 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

None known.

Incompatible Materials

Reducing agents

Hazardous Decomposition Products

Nitrogen oxides (NOx).

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information Harmful by inhalation Contains a known or suspected carcinogen. May cause cancer by

inhalation

Inhalation Harmful by inhalation.

Eye Contact There is no data available for this product.

Skin Contact There is no data available for this product.

Ingestion There is no data available for this product.

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Nitric acid	-	-	= 130 mg/m ³ (Rat) 4 h = 67
7697-37-2 (3)			ppm (Rat)4 h
Beryllium di(acetate)	-	-	-
543-81-7 (0.11)			

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 Contains a known or suspected carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Nitric acid 7697-37-2		Group 2A		Х
Beryllium di(acetate) 543-81-7	A1	Group 1	Known	X

Reproductive Toxicity
STOT - single exposure
STOT - repeated exposure
Target Organ Effects
Aspiration Hazard
No information available.
No information available.
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 (oral) 90909 mg/kg ATEmix (inhalation-dust/mist) 42.9 mg/L ATEmix (inhalation-vapor) 2233 mg/L

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical N	lame	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Nitric aci 7697-37	-		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 Dispose of in accordance with federal, state and local regulations

Products

Contaminated Packaging Do not re-use empty containers.

Chemical Name	California Hazardous Waste Status
Nitric acid	Toxic
7697-37-2	Corrosive Ignitable
Beryllium di(acetate) 543-81-7	Toxic

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

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 ||

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** III

Description Not applicable.

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

<u>ICAO</u>

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

IATA-DGR

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 None **14.6. Special Provisions** None

15. REGULATORY INFORMATION

International Inventories

TSCA Complies DSL/NDSL Complies Complies **EINECS/ELINCS** Complies **ENCS** Complies **IECSC KECL** Complies Complies **PICCS 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 7697-37-2	1000 lb			Х
Beryllium di(acetate) 543-81-7		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	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 contains the following Proposition 65 chemicals:

Chemical Name	California Prop. 65
Beryllium di(acetate) - 543-81-7	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Nitric acid 7697-37-2	X	X	Х
Beryllium di(acetate) 543-81-7	X		Х

U.S. EPA Label Information

16. OTHER INFORMATION

Revision Date Revision Note 07-Aug-2015

No information available

Disclaimer

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. VWR International and its Affiliates shall not be held liable for any damage resulting from handling.

End of MSDS