

# SAFETY DATA SHEET

Issue Date 16-Feb-2022 Revision Date 16-Feb-2022 Version 1

# 1. IDENTIFICATION

Product identifier Product Name Drinking Water Mercury QC Standard

Other means of identification

Product Code PEI-088

UN/ID no. UN2031

Synonyms None

Recommended use of the chemical and restrictions on use

**Recommended Use** For Laboratory Use Only. **Uses advised against** No information available

Details of the supplier of the safety data sheet

**Emergency telephone number** 

**Company Phone Number** 800-234-7837 **FAX** 919-789-3019

Website www.nsilabsolutions.com E-mail address nsi@nsilabsolutions.com

Emergency Telephone 919-349-7322

# 2. HAZARDS IDENTIFICATION

#### Classification

# **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

····· - ···· - · · · · · · · · · · · ·	
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 1 Sub-category A
Serious eye damage/eye irritation	Category 1

#### Label elements

#### **Emergency Overview**

#### Danger

#### Hazard statements

H332: Harmful if inhaled

H314: Causes severe skin burns and eye damage



Appearance Clear / Colorless to light

llow

Physical state Liquid Odor Odorless

# **Precautionary Statements - Prevention**

Use only outdoors or in a well-ventilated area

Do not breathe dusts or mists

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

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

Immediately call a POISON CENTER or doctor

Specific treatment (see supplemental first aid on this label).

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

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

Wash contaminated clothing before reuse

IF INHALED: Remove person to fresh air and keep comfortable for breathing

Immediately call a POISON CENTER or doctor

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) Not

applicable

#### Other Information

Not applicable

Unknown acute toxicity 0.001 % of the mixture consists of ingredient(s) of unknown toxicity

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

### **Substance**

Chemical Name	CAS No.	Weight-%
Water	7732-18-5	89-90
Nitric acid	7697-37-2	1-10
Methyl mercury chloride	116-09-3	0-0.001
Mercury nitrate	10045-94-0	0-0.001

Refer to Certificate of Analysis for exact percentage concentration.

# 4. FIRST AID MEASURES

# Description of first aid measures

General advice In case of accident or unwellness, seek medical advice immediately (show directions for

use or Safety Data Sheet, if possible).

**Eye contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper

eyelids. Consult a physician.

**Skin contact**Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes.

**Inhalation** Remove to fresh air. If symptoms persist, call a physician.

**Ingestion** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Clean

mouth with water and drink afterwards plenty of water. Consult a physician, if necessary.

#### Most important symptoms and effects, both acute and delayed

Symptoms The most important known symptoms and effects are described in Section 2 and/or Section 11.

Revision Date 16-Feb-2022

Indication of any immediate medical attention and special treatment needed

**Note to physicians**Treat symptomatically.

Note to physicians 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 No information available.

#### Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and/or 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, especially in confined areas. Use personal protective

equipment, as required. Do not get in eyes, on skin, or on clothing.

For emergency responders Ensure adequate ventilation.

**Environmental precautions** 

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up

Methods for containment Soak up condensate with inert absorbent material and collect in ventilated waste container

for disposal.

**Methods for cleaning up**Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards See Section 12: ECOLOGICAL INFORMATION.

# 7. HANDLING AND STORAGE

Precautions for safe handling

**Advice on safe handling** Avoid breathing vapors or mists. For precautions, see Section 2.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Store in accordance with

local regulations.

**Incompatible materials**No information available.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

**Exposure Guidelines**This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Water 7732- 18-5	-	-	-
Nitric acid 7697-37-2	STEL: 4 ppm TWA: 2 ppm	TWA: 2 ppm TWA: 5 mg/m³ (vacated) TWA: 2 ppm (vacated) TWA: 5 mg/m³ (vacated) STEL: 4 ppm (vacated) STEL: 10 mg/m³	IDLH: 25 ppm TWA: 2 ppm TWA: 5 mg/m³ STEL: 4 ppm STEL: 10 mg/m³
Methyl mercury chloride 116-09-3	-	-	-
Mercury nitrate 10045- 94-0	TWA: 0.025 mg/m³ Hg S*	(vacated) Ceiling: 0.1 mg/m³ Hg	IDLH: 10 mg/m³ Hg Ceiling: 0.1 mg/m³ Hg TWA: 0.05 mg/m³ except Organo alkyls Hg vapor

# Appropriate engineering controls

Engineering Controls Handle in accordance with good industrial hygiene and safety practice.

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

**Eye/face protection** Use equipment for eye protection tested and approved under appropriate government

standards such as NIOSH (US) or EN 166 (EU).

**Skin and body protection** Wear protective gloves and protective clothing.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must

be provided in accordance with current local regulations.

General Hygiene Considerations Wash hands thoroughly after handling.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state Liquid

# PEI-088 - Drinking Water Mercury QC

Standard Revision Date 16-Feb-2022

Appearance Clear / Colorless to light yellow Color No information available

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

pH No data available.

Melting point / freezing point No information available

Boiling point / boiling range
Flash point
Evaporation rate
Flammability (solid, gas)
No information available
No information available
No information available
No information available

Flammability Limit in Air
Upper flammability limit:

Upper flammability limit:
Lower flammability limit:
Vapor pressure
Vapor density
Relative density
Water solubility
No information available
No information available
No information available
No information available
Miscible in water

Solubility in other solvents
Partition coefficient
Autoignition temperature
Decomposition temperature
No information available
No information available
No information available

Odor Odorless Odor threshold No information available

Remarks • Method

# 10. STABILITY AND REACTIVITY

#### Reactivity

No information available

#### **Chemical stability**

Stable under recommended storage conditions. <u>Possibility of Hazardous</u> Reactions No information available.

**Hazardous polymerization** Hazardous polymerization does not occur.

#### Conditions to avoid No

information available.

#### Incompatible materials

No information available.

# **Hazardous Decomposition Products**

Nitrogen oxides (NOx).

No information available 11. TOXICOLOGICAL INFORMATION **Kinematic viscosity Dynamic viscosity** No information available Information on likely routes of exposure
No information available Product Information No data **Explosive properties Oxidizing properties** 

No information available

available

Nο data Inhalation available.

No data Eye contact available.

No data Skin contact available.

No data Ingestion available.

•			
Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Water 7732-18-5	> 90 mL/kg ( Rat )	-	-
Nitric acid 7697- 37-2	-	-	= 130 mg/m <sup>3</sup> ( Rat ) 4 h = 67 ppm ( Rat ) 4 h
Mercury nitrate 10045-94-0	= 26 mg/kg( Rat)	= 75 mg/kg (Rat)	-
Methyl mercury chloride 116-09-3	-	-	-

# Information on toxicological effects

**Other Information** 

Softening point Molecular weight

**VOC Content (%)** 

**Density** 

**Bulk density** 

No information available. **Symptoms** 

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

No information available. Germ cell mutagenicity Sensitization No information available.

# PEI-088 - Drinking Water Mercury QC Standard

\_\_\_\_\_

**Carcinogenicity** No information available.

Chemical Name	ACGIH	IARC	NTP	OSHA
Water 7732-18-5	-	-	-	-
Nitric acid 7697- 37-2	-	Group 2A Group 1	-	X

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
Other adverse effects
Aspiration hazard
No information available.
Product Information

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

ATEmix (inhalation-dust/mist) 1.30 ATEmix (inhalation-vapor) 670.00

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

0.001 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Water 7732- 18-5	-	-	-
Nitric acid 7697-37-2	-	72: 96 h Gambusia affinis mg/L LC50	-
Mercury nitrate 10045- 94-0	-	-	-
Methyl mercury chloride 116-09-3	-	-	-

#### Persistence and degradability

No information available.

# **Bioaccumulation** No

information available.

Chemical Name	Partition coefficient
Water 7732- 18-5	-
Nitric acid 7697-37-2	-2.3

Other adverse effects No information available

# 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

**Disposal of wastes** 

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging Do not reuse container.

**Chemical Name** RCRA RCRA - Basis for Listing RCRA-RCRA -**D** Series U Wastes Series Wastes Water 7732-18-5 Nitric acid 7697-37-2 Mercury nitrate 10045-94-0 Methyl mercury chloride

Revision Date 16-Feb-2022

116-09-3  Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes		RCRA - F Series Wastes	RCRA - Series Wastes
Water 7732-	-		-	-	-
18-5 Nitric acid 7697-37-2	-		-	-	-
	Chemi	cal Name	California Hazardous W	aste Status	
	Water	7732-18-5	-		
		ric acid 97-37-2	Toxic Corrosive Ignitable		
	Mercury nitra	ate 10045-94-0	Toxi c Ignit able		
	Methyl mercury	chloride 116-09-3	-		
		14. TRANSPORT INFORM	ATION		

This standard is packaged and shipped in accordance with 49 CFR 173.4: Hazardous Materials in

**DOT** Excepted Quantities.

UN/ID no. UN2031
Proper shipping name Nitric acid

Hazard Class 8
Packing Group ||

<u>IATA</u>

UN/ ID

no. UN2031 Proper shipping name Nitric acid

Hazard Class 8
Packing Group ||

**IMDG** 

UN/ ID

no. UN2031 Proper shipping name Nitric acid

Hazard Class 8
Packing Group ||

**EmS-No.** F-A, S-B

# 15. REGULATORY INFORMATION

**International Inventories** 

TSCA Complies
DSL/NDSL Complies
EINECS/ELINCS Complies

ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

#### Legend:

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 Chemical Substances/European 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

#### **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %
Water - 7732-18-5	-
Nitric acid - 7697-37-2	1.0

### SARA 311/312 Hazard Categories

Acute health hazard	N
	0
Chronic Health Hazard	N
	0
Fire hazard	N
	0
Sudden release of pressure hazard	N
	0
Reactive Hazard	N
	0

# **CWA (Clean Water Act)**

This product, as supplied, does not contain any substances regulated as 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
Water 7732- 18-5	-	-	-	-
Nitric acid 7697-37-2	1000 lb	-	-	X

#### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Water 7732- 18-5	-	-	-
Nitric acid 7697-37-2	1000 lb	1000 lb	RQ 1000 lb final RQ RQ 454 kg final RQ

# **US State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals

Revision Date 16-Feb-2022

Chemical Name	California Proposition 65
Water - 7732-18-5	-
Nitric acid - 7697-37-2	-

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Water 7732- 18-5	-	-	X
Nitric acid 7697-37-2	X	X	Х

U.S. EPA Label Information

**EPA Pesticide Registration Number** Not applicable

16. OT	THER INFORMATION, INC	LUDING DATE OF	PREPARATION OF THE	LAST REVISION
NFPA	Health hazards 3	Flammability 0	Instability 0	Physical and Chemical Properties -
HMIS	Health hazards 3	Flammability 0	Physical hazards 2	Personal protection X
Issue Date Revision Date	16-Feb 16-Feb	-		

**Revision Note** 

No information available

**Disclaimer** 

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

**End of Safety Data Sheet** 

\_\_\_\_\_\_