

# SAFETY DATA SHEET

Issue Date 12-Jan-2016 Revision Date 12-Jan-2016 Version 1

## 1. IDENTIFICATION

Product identifier

Product Name Drinking Water Inorganics

Other means of identification

Product Code PEI-041

**UN/ID no.** Final product is not regulated.

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

Manufacturer Address NSI Lab Solutions, Inc. 7212 ACC Blvd. Raleigh, NC 27617

Emergency telephone number

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

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

Emergency Telephone 919-349-7322

## 2. HAZARDS IDENTIFICATION

## Classification

#### **OSHA Regulatory Status**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

#### Label elements

**Emergency Overview** 

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Appearance No information available Physical state Liquid Odor No information available

#### Hazards not otherwise classified (HNOC)

Not applicable

## Other Information

Not applicable

Unknown acute toxicity 0 % of the mixture consists of ingredient(s) of unknown toxicity

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Substance**

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Chemical Name	CAS No.	Weight-%
Water	7732-18-5	98-99.9
Sodium sulfate	7757-82-6	0-0.025
Sodium tetraborate decahydrate	1303-96-4	0-0.02
TDS Analog	Proprietary	0-0.016
Sodium fluoride	7681-49-4	0-0.001
Potassium nitrate	7757-79-1	0-0.001

Refer to Certificate of Analysis for exact percentage concentration.

#### 4. FIRST AID MEASURES

#### Description of 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** Remove to fresh air.

**Ingestion** Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

Indication of any immediate medical attention and special treatment needed

# 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media CAUTION: Use of water spray when fighting fire may be inefficient.

#### Specific hazards arising from the chemical

No information available.

**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, especially in confined areas.

**Environmental precautions** 

**Environmental precautions** See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

## 7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible materials**None known based on information supplied.

## 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	-	-	-
Sodium sulfate 7757-82-6	-	-	-
Sodium tetraborate decahydrate 1303-96-4	STEL: 6 mg/m³ inhalable fraction TWA: 2 mg/m³ inhalable fraction	(vacated) TWA: 10 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>
TDS Analog	-	-	-
Sodium fluoride 7681-49-4	TWA: 2.5 mg/m³ F	TWA: 2.5 mg/m³ F TWA: 2.5 mg/m³ dust (vacated) TWA: 2.5 mg/m³	IDLH: 250 mg/m³ F TWA: 2.5 mg/m³ F
Potassium nitrate 7757-79-1	-	-	-

#### **Appropriate engineering controls**

Engineering Controls Showers

Eyewash stations Ventilation systems.

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

**Eye/face protection** No special technical protective measures are necessary.

**Skin and body protection** No special technical protective measures are necessary.

**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 Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

## PEI-041 - Drinking Water Inorganics

Physical state Liquid

AppearanceNo information availableOdorNo information availableColorNo information availableOdor thresholdNo information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH No information available

Flammability Limit in Air

Upper flammability limit: No information available Lower flammability limit: No information available Vapor pressure No information available Vapor density No information available Relative density No information available Water solubility No information available Solubility in other solvents No information available **Partition coefficient** No information available **Autoignition temperature** No information available **Decomposition temperature** No information available Kinematic viscosity No information available **Dynamic viscosity** No information available **Explosive properties** No information available **Oxidizing properties** No information available

Other Information

Softening point
Molecular weight
VOC Content (%)
Density
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.

#### Conditions to avoid

Extremes of temperature and direct sunlight.

## **Incompatible materials**

None known based on information supplied.

## **Hazardous Decomposition Products**

None known based on information supplied.

#### 11. TOXICOLOGICAL INFORMATION

## Information on likely routes of exposure

Product Information No data available

**Inhalation** No data available.

Eye contact No data available.

Skin contact No data available.

#### Ingestion

No data available.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Water 7732-18-5	> 90 mL/kg (Rat)	-	-
Sodium sulfate 7757-82-6	> 10000 mg/kg(Rat)	-	-
Sodium tetraborate decahydrate 1303-96-4	= 3493 mg/kg ( Rat ) = 2660 mg/kg ( Rat )	> 10000 mg/kg(Rabbit)	-
TDS Analog	= 3 g/kg (Rat)	> 10 g/kg(Rabbit)	> 42 g/m³(Rat)1 h
Sodium fluoride 7681-49-4	= 52 mg/kg ( Rat )	= 175 mg/kg (Rat)	-
Potassium nitrate 7757-79-1	= 3015 mg/kg ( Rat )	-	-

## 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.Germ cell mutagenicityNo information available.CarcinogenicityNo information available.Reproductive toxicityNo information available.STOT - single exposureNo information available.STOT - repeated exposureNo information available.Aspiration hazardNo information available.

Numerical measures of toxicity - Product Information

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

0.021 % 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			
Sodium sulfate	-	13500: 96 h Lepomis macrochirus	630: 96 h Daphnia magna mg/L
7757-82-6		mg/L LC50 3040 - 4380: 96 h	EC50 2564: 48 h Daphnia magna
		Lepomis macrochirus mg/L LC50	mg/L EC50
		static 13500 - 14500: 96 h	
		Pimephales promelas mg/L LC50	
		6800: 96 h Pimephales promelas	
		mg/L LC50 static	
Sodium tetraborate decahydrate	-	-	-
1303-96-4			
TDS Analog	-	5560 - 6080: 96 h Lepomis	1000: 48 h Daphnia magna mg/L
		macrochirus mg/L LC50	EC50 340.7 - 469.2: 48 h Daphnia
		flow-through 6420 - 6700: 96 h	magna mg/L EC50 Static
		Pimephales promelas mg/L LC50	
		static 4747 - 7824: 96 h	
		Oncorhynchus mykiss mg/L LC50	
		flow-through 7050: 96 h Pimephales	
		promelas mg/L LC50 semi-static	
		12946: 96 h Lepomis macrochirus mg/L LC50 static 6020 - 7070: 96 h	
		Pimephales promelas mg/L LC50	
		static	
Sodium fluoride	850: 72 h Desmodesmus	530: 96 h Lepomis macrochirus	338: 48 h Daphnia magna mg/L
7681-49-4	subspicatus mg/L EC50 static 272:	mg/L LC50 830: 96 h Lepomis	EC50 98: 48 h Daphnia magna
7001-43-4	96 h Pseudokirchneriella	macrochirus mg/L LC50 semi-static	mg/L EC50 Static
	subcapitata mg/L EC50	38 - 68: 96 h Oncorhynchus mykiss	mg/L LOSO Static
	Jaboapitata mg/L LOO	100 00. 00 ii Oricomyrichus mykiss	

		mg/L LC50 static 180: 96 h Pimephales promelas mg/L LC50 semi-static	
Potassium nitrate 7757-79-1	-	-	-

# Persistence and degradability No information available.

#### **Bioaccumulation**

No information available.

No information available Other adverse effects

# 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Disposal should be in accordance with applicable regional, national and local laws and Disposal of wastes

regulations.

**Contaminated packaging** Do not reuse container.

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Water 7732-18-5	-	-	-	-
Sodium sulfate 7757-82-6	-	-	-	-
Sodium tetraborate decahydrate 1303-96-4	-	-	-	-
TDS Analog	-	-	-	-
Sodium fluoride 7681-49-4	-	-	-	-
Potassium nitrate 7757-79-1	-	-	-	-

Chemical Name	California Hazardous Waste Status
Water	-
7732-18-5	
Sodium sulfate	-
7757-82-6	
Sodium tetraborate decahydrate	Toxic
1303-96-4	
TDS Analog	-
Sodium fluoride	Toxic
7681-49-4	
Potassium nitrate	Ignitable
7757-79-1	Reactive

# 14. TRANSPORT INFORMATION

DOT Not regulated

Final product is not regulated. UN/ID no.

Not regulated <u>IATA</u>

IMDG Not regulated

## 15. REGULATORY INFORMATION

#### **International Inventories**

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

#### 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

## SARA 311/312 Hazard Categories

Acute health hazardNoChronic Health HazardNoFire hazardNoSudden release of pressure hazardNoReactive HazardNo

#### **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).

#### **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.

## **US State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals

# U.S. State Right-to-Know Regulations

#### **U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not applicable

## 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA Health hazards 0 Flammability 0 Instability 0 Physical and Chemical

Properties -

HMIS Health hazards 0 Flammability 0 Physical hazards 0 Personal protection X

Issue Date12-Jan-2016Revision Date12-Jan-2016

**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**