

# SAFETY DATA SHEET

Category 1B

Issue Date 12-Jan-2016

Revision Date 12-Jan-2016

Version 1

# **1. IDENTIFICATION**

	2. HAZARDS IDENTIFICATION
Emergency Telephone	919-349-7322
E-mail address	nsi@nsilabsolutions.com
Website	www.nsilabsolutions.com
FAX	919-789-3019
Emergency telephone number Company Phone Number	800-234-7837
7212 ACC Blvd. Raleigh, NC 27617	
Manufacturer Address NSI Lab Solutions, Inc.	
Details of the supplier of the safe	ty data sheet
Uses advised against	No information available
Recommended use of the chemic Recommended Use	cal and restrictions on use For Laboratory Use Only.
Synonyms	None
Product Code UN/ID no.	PEI-035 Final product is not regulated.
Other means of identification	
<u>Product identifier</u> Product Name	рН

# **Classification**

Label elements

#### **OSHA Regulatory Status**

This Safety Data Sheet covers a wide range of pH values and may be considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) at some of those pH values.

Reproductive toxicity

#### Danger

Emergency Overview

Hazard statements

H360: May damage fertility or the unborn child



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

## **Precautionary Statements - Prevention**

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Wear protective gloves/protective clothing/eye protection/face protection

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

IF exposed or concerned: Get medical advice/attention

# **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 % of the mixture consists of ingredient(s) of unknown toxicity

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### Substance

This Safety Data Sheet covers a wide range of pH values and may be considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) at some of those pH values.

Chemical Name	CAS No.	Weight-%
Water	7732-18-5	90-98
Potassium hydrogen phthalate	877-24-7	0-1.5
Potassium phosphate monobasic	7778-77-0	0-0.7
Sodium tetraborate decahydrate	1303-96-4	0-0.5
Sodium hydroxide	1310-73-2	0-0.2
Hydrochloric acid	7647-01-0	0-0.02

Refer to Certificate of Analysis for exact percentage concentration.

# 4. FIRST AID MEASURES

#### **Description of first aid measures**

- Eye contactRinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.<br/>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

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 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.
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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	hemical Name ACGIH TLV OSHA PEL		NIOSH IDLH
Water	-	-	-
7732-18-5			
Potassium hydrogen phthalate	-	-	-
877-24-7			
Potassium phosphate monobasic	-	-	-
7778-77-0			
Sodium tetraborate decahydrate	STEL: 6 mg/m <sup>3</sup> inhalable fraction	(vacated) TWA: 10 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>
1303-96-4	TWA: 2 mg/m <sup>3</sup> inhalable fraction		
Sodium hydroxide	Ceiling: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	IDLH: 10 mg/m <sup>3</sup>

1310-73-2		(vacated) Ceiling: 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>
Hydrochloric acid 7647-01-0	Ceiling: 2 ppm	(vacated) Ceiling: 5 ppm (vacated) Ceiling: 7 mg/m <sup>3</sup> Ceiling: 5 ppm	IDLH: 50 ppm Ceiling: 5 ppm Ceiling: 7 mg/m <sup>3</sup>
		Ceiling: 7 mg/m <sup>3</sup>	Ocining. 7 mg/m

#### Appropriate engineering controls

**Engineering Controls** 

Showers	
Eyewash statio	ns
Ventilation syst	ems.

#### 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

Physical state Appearance Color

#### **Property** bН Melting point / freezing point Boiling point / boiling range Flash point Evaporation rate Flammability (solid, gas) Flammability Limit in Air Upper flammability limit: Lower flammability limit: Vapor pressure Vapor density **Relative densitv** Water solubility Solubility in other solvents **Partition coefficient** Autoignition temperature **Decomposition temperature** Kinematic viscosity **Dynamic viscosity Explosive properties Oxidizing properties**

#### **Other Information**

Softening point Molecular weight VOC Content (%) Density Bulk density Liquid No information available No information available

#### Values

No information available No information available

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#### Remarks • Method

# **10. STABILITY AND REACTIVITY**

Reactivity No data available

<u>Chemical stability</u> Stable under recommended storage conditions. <u>Possibility of Hazardous Reactions</u> None under normal processing. <u>Conditions to avoid</u> Extremes of temperature and direct sunlight. <u>Incompatible materials</u> None known based on information supplied. <u>Hazardous Decomposition Products</u> 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	> 90 mL/kg (Rat)	-	-	
7732-18-5				
Potassium hydrogen phthalate	> 3200 mg/kg (Rat)	-	-	
877-24-7				
Potassium phosphate monobasic	-	> 4640 mg/kg (Rabbit)	-	
7778-77-0				
Sodium tetraborate decahydrate	= 3493 mg/kg (Rat) = 2660 mg/kg	> 10000 mg/kg (Rabbit)	-	
1303-96-4	(Rat)			
Sodium hydroxide	-	= 1350 mg/kg (Rabbit)	-	
1310-73-2				
Hydrochloric acid	238 - 277 mg/kg (Rat)	> 5010 mg/kg (Rabbit)	= 1.68 mg/L (Rat)1 h	
7647-01-0				

#### 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.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration hazard	No information available.

#### Numerical measures of toxicity - Product Information

# **12. ECOLOGICAL INFORMATION**

## Ecotoxicity

# 2.7 % 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	-	-	-	
Potassium hydrogen phthalate 877-24-7	-	-	-	
Potassium phosphate monobasic 7778-77-0	-	-	-	
Sodium tetraborate decahydrate 1303-96-4	-	-	-	
Sodium hydroxide 1310-73-2	-	45.4: 96 h Oncorhynchus mykiss mg/L LC50 static	-	
Hydrochloric acid 7647-01-0	-	282: 96 h Gambusia affinis mg/L LC50 static	-	

# Persistence and degradability

No information available.

# **Bioaccumulation**

No information available.

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 - D Series Wastes	RCRA - U Series Wastes
Water 7732-18-5	-	-	-	-
Potassium hydrogen phthalate 877-24-7	-	-	-	-
Potassium phosphate monobasic 7778-77-0	-	-	-	-
Sodium tetraborate decahydrate 1303-96-4	-	-	-	-
Sodium hydroxide 1310-73-2	-	-	-	-
Hydrochloric acid 7647-01-0	-	-	-	-

Chemical Name	ne California Hazardous Waste Status	
Water	-	
7732-18-5		
Potassium hydrogen phthalate	-	
877-24-7		
Potassium phosphate monobasic	-	
7778-77-0		
Sodium tetraborate decahydrate	Toxic	
1303-96-4		
Sodium hydroxide	Toxic	
1310-73-2	Corrosive	
Hydrochloric acid	-	
7647-01-0		

# **14. TRANSPORT INFORMATION**

<u>DOT</u> UN/ID no.	This standard is packaged and shipped in accordance with 49 CFR 173.4: Hazardous Materials in Excepted Quantities. Final product is not regulated.
IATA	Not regulated
IMDG_	Not regulated

# **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

## 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

#### 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 1*	Flammability 0	Physical hazards 0	Personal protection X
Chronic Hazard Star Lege	nd *= Chronic I	Health Hazard	-	-
Issue Date	12-Jan-201	6		
Revision Date	12-Jan-201	6		
Revision Note				
No information available				
<u>Disclaimer</u>				
The information provid	ed in this Safety Data Sh	eet is correct to the b	est of our knowledge, info	mation and belief at the

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