

1. IDENTIFICATION**Product identifier** Product Name Hardness**Other means of identification****Product Code** PEI-145
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 nsi@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 1.9 % 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	99-99.9
Magnesium chloride hexahydrate	7791-18-6	0-0.2
Calcium chloride dihydrate	10035-04-8	0-0.2
Sodium chloride	7647-14-5	0-0.2

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

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.

Pick up and transfer to properly labeled containers.

Methods for cleaning up

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 773218-5	-	-	-
Magnesium chloride hexahydrate 7791-18-6	-	-	-
Calcium chloride dihydrate 10035-04-8	-	-	-
Sodium chloride 7647-14-5	-	-	-

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

Physical state Liquid

	No information available	Appearance	
Color	No information available	Odor	No information available
		Odor threshold	No information available
	Values		
	No information available		
Property pH	No information available	<u>Remarks • Method</u>	
Melting point / freezing point	No information available	Flammability (solid, gas)	No information available
Boiling point / boiling range	No information available	Flammability Limit in Air	
Flash point	No information available	Upper flammability limit:	No information available
Evaporation rate	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
		<u>Other Information</u>	
		Softening point	No information available
		Molecular weight	No information available
		VOC Content (%)	No information available
		Density	No information available
		Bulk density	No information available

Ingestion available.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50	10. STABILITY AND REACTIVITY
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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 No data

Information available No data

Inhalation available. No

data

Eye contact available.

No data

Skin contact available.

No data

Water 7732-18-5	-	-	-
Magnesium chloride hexahydrate 7791-18-6	= 8100 mg/kg (Rat)	-	-
Calcium chloride dihydrate 10035-04-8	-	-	-
Sodium Chloride 7647-14-5	= 3 g/kg (Rat)	> 10 g/kg (Rabbit)	> 42 g/m ³ (Rat) 1 h

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

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Water 773218-5	-	-	-
Magnesium chloride hexahydrate 7791-18-6	-	-	-
Calcium chloride dihydrate 10035-04-8	-	-	-
Sodium Chloride 7647-14-5	-	5560 - 6080: 96 h Lepomis macrochirus mg/L LC50 flow-through 12946: 96 h Lepomis macrochirus mg/L LC50 static 6020 - 7070: 96 h Pimephales promelas mg/L LC50 static 7050: 96 h Pimephales promelas mg/L LC50 semi-static 6420 - 6700: 96 h Pimephales promelas mg/L LC50 static 4747 - 7824: 96 h Oncorhynchus mykiss mg/L LC50 flow-through	1000: 48 h Daphnia magna mg/L EC50 340.7 - 469.2: 48 h Daphnia magna mg/L EC50 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.
Do not reuse container.

Contaminated packaging

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Water 7732-185	-	-	-	-
Magnesium chloride hexahydrate 7791-18-6	-	-	-	-
Calcium chloride dihydrate 10035-04-8	-	-	-	-
Sodium Chloride 7647-14-5	-	-	-	-
Chemical Name	California Hazardous Waste Status			
Water 7732-185	-			
Magnesium chloride hexahydrate 7791-18-6	-			
Calcium chloride dihydrate 10035-04-8	-			
Sodium Chloride 7647-14-5	-			

14. TRANSPORT INFORMATION

DOT Not regulated
UN/ID no. 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 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			
HMIS		Health hazards 0	Flammability 0	Physical hazards 0
				Properties - Personal protection X

Issue Date 28-Jan-2022

Revision Date 28-Jan-2022

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