

1. IDENTIFICATION

Product identifier **Product Name** Universal Wastewater Standard

Other means of identification

Product Code QCI-084
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 1.943% 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	98-99.8
L-Glutamic acid	56-86-0	0.015
D(+)-Glucose	50-99-7	0.015
Buffer Constituent	Proprietary	0 - 10%
Potassium chloride	7447-40-7	0.01
Diatomaceous earth	91053-39-3	0.01
Ammonium chloride	12125-02-9	0.003
Buffer Constituent	Proprietary	0 - 10%
Sodium nitrate	7631-99-4	0.001
Potassium phosphate monobasic	7778-77-0	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

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.

Incompatible materials None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Water 7732-18-5	-	-	-
L-Glutamic acid 56-86-0	-	-	-
D(+)-Glucose 50-99-7	-	-	-
Buffer Constituent	STEL: 6 mg/m ³ inhalable fraction TWA: 2 mg/m ³ inhalable fraction	(vacated) TWA: 10 mg/m ³	TWA: 5 mg/m ³
Potassium chloride 7447-40-7	-	-	-
Diatomaceous earth 91053-39-3	-	-	-
Ammonium chloride 12125-02-9	STEL: 20 mg/m ³ fume TWA: 10 mg/m ³ fume	(vacated) TWA: 10 mg/m ³ fume (vacated) STEL: 20 mg/m ³ fume	TWA: 10 mg/m ³ fume STEL: 20 mg/m ³ fume
Buffer Constituent	STEL: 6 mg/m ³ inhalable fraction TWA: 2 mg/m ³ inhalable fraction	-	-
Sodium nitrate 7631-99-4	-	-	-
Potassium phosphate monobasic 7778-77-0	-	-	-

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	Odor	No Information Available
Appearance	No Information Available	Odor threshold	No Information Available
Color	No Information Available		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No Information Available	
Melting point / freezing point	No Information Available	
Boiling point / boiling range	No Information Available	
Flash point	No Information Available	
Evaporation rate	No Information Available	
Flammability (solid, gas)	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	No Information Available
Molecular weight	No Information Available
VOC Content (%)	No Information Available
Density	No Information Available
Bulk 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	-	-	-
D(+)-Glucose 50-99-7	= 25800 mg/kg (Rat)	-	-
L-Glutamic acid 56-86-0	> 30 g/kg (Rat)	-	-
Potassium chloride 7447-40-7	= 2600 mg/kg (Rat)	-	-
Buffer Constituent	= 3493 mg/kg (Rat) = 2660 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	-
Diatomaceous earth 91053-39-3	-	-	-
Ammonium chloride 12125-02-9	= 1650 mg/kg (Rat)	-	-
Buffer Constituent	= 2660 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 0.16 mg/L (Rat) 4 h
Potassium phosphate monobasic 7778-77-0	-	> 4640 mg/kg (Rabbit)	-
Sodium nitrate 7631-99-4	= 1267 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

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

1.984 % 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	-	-	-
D(+)-Glucose 50-99-7	-	-	-
L-Glutamic acid 56-86-0	-	-	-
Potassium chloride	2500: 72 h <i>Desmodesmus</i>	1060: 96 h <i>Lepomis macrochirus</i>	825: 48 h <i>Daphnia magna</i> mg/L

7447-40-7	<i>subspicatus</i> mg/L EC50	mg/L LC50 static 750 - 1020: 96 h <i>Pimephales promelas</i> mg/L LC50 static	EC50 83: 48 h <i>Daphnia magna</i> mg/L EC50 Static
Buffer Constituent	-	-	-
Diatomaceous earth 91053-39-3	-	-	-
Ammonium chloride 12125-02-9	-	209: 96 h <i>Cyprinus carpio</i> mg/L LC50 static 725: 24 h <i>Lepomis macrochirus</i> mg/L LC50	202: 24 h <i>Daphnia magna</i> mg/L LC50
Buffer Constituent	-	1020: 72 h <i>Carassius auratus</i> mg/L LC50 flow-through	115 - 153: 48 h <i>Daphnia magna</i> mg/L EC50
Potassium phosphate monobasic 7778-77-0	-	-	-
Sodium nitrate 7631-99-4	-	2000: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static 994.4 - 1107: 96 h <i>Oncorhynchus mykiss</i> 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		California Hazardous Waste Status		
Water 7732-18-5		-		
D(+)-Glucose		-		
Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Water 7732-18-5	-	-	-	-
D(+)-Glucose 50-99-7	-	-	-	-
L-Glutamic acid 56-86-0	-	-	-	-
Potassium chloride 7447-40-7	-	-	-	-
Buffer Constituent	-	-	-	-
Diatomaceous earth 91053-39-3	-	-	-	-
Ammonium chloride 12125-02-9	-	-	-	-
Buffer Constituent	-	-	-	-
Potassium phosphate monobasic 7778-77-0	-	-	-	-
Sodium nitrate 7631-99-4	-	-	-	-

50-99-7	
L-Glutamic acid 56-86-0	-
Potassium chloride 7447-40-7	-
Buffer Constituent	Toxic
Diatomaceous earth 91053-39-3	-
Ammonium chloride 12125-02-9	-

Buffer Constituent	Toxic
Potassium phosphate monobasic 7778-77-0	-
Sodium nitrate 7631-99-4	Toxic Ignitable Reactive
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	Not Listed	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 Properties -
HMIS _____	Health hazards 0	Flammability 0	Physical hazards 0	Personal protection X

Issue Date 18-Jun-2015
 Revision Date 29-July-2020

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