# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Product identifier YSI Lactose Standard- All Concentrations** 

Version #

22-April-2014 Issue date

**Revision date** Supersedes date

CAS# Mixture **Product code** 2783, 2784

**Product use** Analysis Standard/Reagent

Manufacturer

information 1700/1725 Brannum Lane

> Yellow Springs, Ohio 45387 MSDSinfo@ysi.com

(937) 767-7241

CHEMTREC (US/Canada) (800) 424-9300 CHEMTREC (International) 011 703-527-3887

(Collect calls accepted)

#### 2. Hazards Identification

Potential health effects

Health injuries are not known or expected under normal use. **Eves** Health injuries are not known or expected under normal use. Skin Inhalation Health injuries are not known or expected under normal use. Ingestion Health injuries are not known or expected under normal use.

**Target organs** No specific target organs noted.

Direct contact with eyes may cause temporary irritation. Signs and symptoms

Potential environmental effects Ecological injuries are not known or expected under normal use.

# 3. Composition / Information on Ingredients

Components	CAS#	Percent
Potassium EDTA	25102-12-9	< 1
Lactose, monohydrate	64044-51-5	< 1
Gentamicin, sulfate	1405-41-0	< 0.01
Water	7732-18-5	> 98

#### 4. First Aid Measures

First aid procedures

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

Skin contact Rinse skin with water/shower. Get medical attention if irritation develops and persists.

Inhalation If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

Call a physician if symptoms develop or persist.

Ingestion Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.

**General advice** If you feel unwell, seek medical advice (show the label where possible). Show this safety data

sheet to the doctor in attendance.

5. Fire Fighting Measures

Flammable properties Not flammable by WHMIS criteria.

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**Extinguishing media** 

Suitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

**Protection of firefighters** 

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Protective equipment for

firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

equipment/instructions

Move containers from fire area if you can do so without risk.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

**Explosion data** 

Sensitivity to static

discharge

Not available.

Sensitivity to mechanical

impact

Not available.

#### 6. Accidental Release Measures

Personal precautions

Keep unnecessary personnel away. For personal protection, see section 8 of the MSDS.

Environmental precautions

Do not contaminate water.

Methods for containment Methods for cleaning up Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is

possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to

remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the

MSDS.

7. Handling and Storage

Handling

Do not breathe mist/vapors/spray. Avoid contact with skin, eyes and clothing. Observe good

industrial hygiene practices.

Storage

Store in original tightly closed container. Store away from incompatible materials (see Section 10

of the MSDS).

#### 8. Exposure Controls / Personal Protection

Occupational exposure limits

No exposure limits noted for ingredient(s).

**Engineering controls** 

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal protective equipment

Eye / face protection

If contact is likely, safety glasses with side shields are recommended.

Skin protection

Wear suitable protective clothing.

Respiratory protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

#### 9. Physical & Chemical Properties

Appearance Not available.

Physical state Liquid. Form Liquid.

Color Clear and colorless.

Odor None.

Odor threshold Not available.

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**pH** 6.5 - 7.5

Vapor pressureEquivalent to water.Vapor densityEqual to water vapor.Boiling point212 °F (100 °C)Melting point/Freezing pointNot available.Solubility (water)Infinitely soluble

Specific gravity 1

Flash point Not available.
Flammability limits in air, upper, % by volume

Not available.

Flammability limits in air,

Not available.

lower, % by volume
Auto-ignition temperature

Not available.

# 10. Chemical Stability & Reactivity Information

Chemical stabilityMaterial is stable under normal conditions.Conditions to avoidContact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

#### 11. Toxicological Information

Acute effects Not classified.

SensitizationThis product is not expected to cause skin sensitization.Local effectsDirect contact with eyes may cause temporary irritation.Chronic effectsNot expected to be hazardous by WHMIS criteria.

Carcinogenicity

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

Mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Reproductive effects This product is not expected to cause reproductive or developmental effects.

Symptoms and target organs Direct contact with eyes may cause temporary irritation.

#### 12. Ecological Information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Environmental effects**An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Persistence and degradability Not available.

# 13. Disposal Considerations

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Dispose in accordance with all applicable

regulations.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

# 14. Transport Information

### TDG

Not regulated as dangerous goods.

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#### **IATA**

Not regulated as dangerous goods.

#### **IMDG**

Not regulated as dangerous goods.

### 15. Regulatory Information

Country(s) or region

Canadian regulations This product has been classified in accordance with the hazard criteria of the CPR and the MSDS

contains all the information required by the CPR.

WHMIS status Non-controlled

#### Inventory status

Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

<sup>\*</sup>A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

Toxic Substances Control Act (TSCA) Inventory

# 16. Other Information

United States & Puerto Rico

NFPA ratings Health: 0

Flammability: 0 Instability: 0

Inventory name

**Disclaimer** The information in the sheet was written based on the best knowledge and experience currently

available.

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MSDS Canada

On inventory (yes/no)\*

No

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).