

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product identifier Xylose Calibration Standard – all concentrations

Version #

Issue date 13-February-2014

Revision date Supersedes date

CAS# Mixture

Product code 2767; 2768; 7167

Analysis Standard/Reagent **Product use**

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

3. Composition / Information on Ingredients

Components	CAS#	Percent
L(-)Xylose	609-06-3	1 - 5
Benzoic acid	65-85-0	< 1
Dipotassium EDTA Dihydrate	25102-12-9	< 1
Water	7732-18-5	> 96

4. First Aid Measures

First aid procedures

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

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

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.

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

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.

Xylose Calibration Standard - all concentrations 918994 Version #: 01 Revision date: - Issue date: 13-February-2014 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.

Explosion data

Sensitivity to static

discharge

Not available.

Sensitivity to mechanical

impact

Not available.

General fire hazards No unusual fire or explosion hazards noted.

6. Accidental Release Measures

Personal precautions Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of

low areas. Do not touch damaged containers or spilled material unless wearing appropriate

protective clothing. For personal protection, see Section 8 of the MSDS.

Environmental precautions

Prevent further leakage or spillage if safe to do so. 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.

Should not be released into the environment.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. 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 in original containers for re-use. For waste disposal, see section 13 of the

MSDS.

7. Handling and Storage

Handling Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with eyes, skin, and clothing.

Provide adequate ventilation. Wear personal protective equipment. Wash thoroughly after

handling.

Store in accordance with local/regional/national/international regulation. Store away from Storage

incompatible materials (See Section 10).

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. For prolonged or repeated skin contact use suitable protective

gloves.

Respiratory protection

No personal respiratory protective equipment normally required.

9. Physical & Chemical Properties

Appearance Not available.

Physical state Liquid. **Form** Liquid.

Color Clear and colorless.

Odor None.

Odor threshold Not available. Ηq 6.5 - 7.5

Vapor pressure (Equivalent to water)

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

Specific gravity 1

Flammability limits in air, Not available.

Not available.

upper, % by volume

Flammability limits in air,

lower, % by volume

Not available.

Auto-ignition temperature Not available.

Viscosity (= water vapor)

Other data

Explosive properties Not explosive.

Flammability (solid, gas) Not applicable.

10. Chemical Stability & Reactivity Information

Chemical stability Material is stable under normal conditions.

Conditions to avoid None known.

Incompatible materials None known.

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological Information

Toxicological data

Components Species Test Results

Benzoic acid (CAS 65-85-0)

Acute

Dermal

> 5000 mg/kg

LD50

Inhalation
LC50 Rat > 0.026 mg/l, 1 Hours

Oral

LD50 Rat 1700 mg/kg

Acute effects Not classified.

Sensitization Not classified.

Local effectsMay cause temporary irritation on skin or eye contact. **Chronic effects**Not expected to be hazardous by WHMIS criteria.

Rabbit

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

available data, the classification criteria are not met.

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

mutagenic or genotoxic.

Reproductive effectsBased on available data, the classification criteria are not met.

Symptoms and target organs None known.

12. Ecological Information

Ecotoxicological data

Components Species Test Results

Benzoic acid (CAS 65-85-0)

Aquatic

Fish LC50 Western mosquitofish (Gambusia affinis) 180 mg/l, 96 hours

Ecotoxicity Not expected to be harmful to aquatic organisms.

Environmental effects

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

Persistence and degradability

Not available.

Partition coefficient

Benzoic acid (CAS 65-85-0) 1.87

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.

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

14. Transport Information

TDG

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. Regulatory Information

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.

Australian Inventory of Chemical Substances (AICS)

WHMIS status Controlled

WHMIS classification D1A - Immediate/Serious-VERY TOXIC

Inventory name

D2B - Other Toxic Effects-TOXIC

WHMIS labeling



Inventory status

Australia

Country(s) or region

Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	No
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)	No

^{*}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

HMIS® ratings Health: 0

Flammability: 0 Physical hazard: 0

NFPA ratings Health: 0

> Flammability: 0 Instability: 0

Xylose Calibration Standard - all concentrations 918994 Version #: 01 Revision date: -Issue date: 13-February-2014 On inventory (yes/no)*

Yes

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).

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The information in the sheet was written based on the best knowledge and experience currently available.