

# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Product identifier Glycerol Standard - All Concentrations** 

Version #

Issue date 07-April-2014

**Revision date** Supersedes date

CAS# Mixture **Product code** 7141, 7142

**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** Skin Health injuries are not known or expected under normal use. Inhalation Health injuries are not known or expected under normal use. Health injuries are not known or expected under normal use. Ingestion Potential environmental effects Ecological injuries are not known or expected under normal use.

## 3. Composition / Information on Ingredients

Components	CAS#	Percent
Sodium Benzoate	532-32-1	< 1
Dipotassium EDTA	25102-12-9	< 1
Glycerin	56-81-5	< 1
Water	7732-18-5	97 - 100

# 4. First Aid Measures

First aid procedures

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

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

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

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

sheet to the doctor in attendance.

5. Fire Fighting Measures

No unusual fire or explosion hazards noted. Not flammable by WHMIS criteria. Flammable properties

Extinguishing media

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

media

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919629 Version #: 01 Revision date: -Issue date: 07-April-2014 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

Fire fighting equipment/instructions

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.

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

**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.

Should not be released into the environment. This product is miscible in water.

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 Use care in handling/storage. Handle and open container with care. 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

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Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Туре	Value	Form
Glycerin (CAS 56-81-5)	TWA	10 mg/m3	Mist.

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Туре	Value	Form
Glycerin (CAS 56-81-5)	TWA	3 mg/m3	Respirable mist.
		10 mg/m3	Mist.

## Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Туре	Value	Form
Glycerin (CAS 56-81-5)	TWA	10 mg/m3	Mist.

## Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

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Components	Туре	Value	Form
Glycerin (CAS 56-81-5)	TWA	10 mg/m3	Mist.

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#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form
Glycerin (CAS 56-81-5)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.

**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**No personal respiratory protective equipment normally required. When workers are facing

concentrations above the exposure limit they must use appropriate certified respirators.

# 9. Physical & Chemical Properties

Appearance Not available.

Physical state Liquid.

Form Liquid.

Color Not available.

Odor Not available.

Odor threshold Not available.

**pH** 6.5 - 7.5

Vapor pressureEquivalent to waterVapor densityEquivalent to water vapor

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

Specific gravity

Flash point Not available.
Flammability limits in air, Not available.

upper, % by volume Flammability limits in air,

lower, % by volume

Auto-ignition temperature Not available.

## 10. Chemical Stability & Reactivity Information

**Chemical stability** Material is stable under normal conditions. **Conditions to avoid** Contact with incompatible materials.

Not available.

**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.

**Local effects** Direct contact with eyes may cause temporary irritation. Prolonged skin contact may cause

temporary irritation.

Chronic effects Not 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.

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## 12. Ecological Information

**Ecotoxicological data** 

Components **Test Results Species** 

Sodium Benzoate (CAS 532-32-1)

Aquatic

**Environmental effects** 

LC50 Fish Fathead minnow (Pimephales promelas) > 100 mg/l, 96 hours

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

> possibility that large or frequent spills can have a harmful or damaging effect on the environment. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Not available.

Persistence and degradability

Partition coefficient Glycerin (CAS 56-81-5)

-1.76

Mobility in environmental

media

This product is miscible in water.

# 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

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

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.

WHMIS status Non-controlled

#### Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
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
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

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

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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).

# 16. Other Information

NFPA ratings Health: 0

Flammability: 0 Instability: 0

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

available.

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