# Safety Data Sheet



Issuing Date 15-Oct-2009

Revision Date 14-Dec-2011

**Revision Number** 1

# 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

Product Name	TG Dry Powder Buffer
Product Code(s)	0251
Recommended Use	For Further Manufacturing Use Only Not for Human or Animal Drug Use
Company AMRESCO, LLC 6681 Cochran Road Solon, Ohio 44139	
Emergency Telephone Number	Chemtrec 1-800-424-9300
Company Phone Number E-mail Address	1-800-448-4442 info@amresco-inc.com

# 2. HAZARDS IDENTIFICATION

# **GHS - Classification**

Classification	Skin Irritant 2 Eye Irritant 2
Signal Word	Warning
Hazard Statements	H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation
Precautionary Statements	P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+ P352 - IF ON SKIN: Wash with plenty of soap and water P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	EC No.	REACH Reg. No.	CAS-No	Weight %	Classification
Glycine	EEC No. 200-272-2	Not available	56-40-6	75-85	-
Tris hydroxymethyl aminomethane	EEC No. 201-064-4	Not available	77-86-1	10-20	-

# 4. FIRST AID MEASURES

Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Skin Contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.
Inhalation	Move to fresh air. If breathing becomes difficult, give oxygen.
Ingestion	Clean mouth with water and afterwards drink plenty of water.
Notes to Physician	Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

Flammable Properties	Not flammable.
Flash Point	Not determined
Suitable Extinguishing Media	Dry chemical, CO2, water spray or regular foam.
Hazardous Combustion Products	Carbon oxides, Nitrogen oxides (NOx), Ammonia.
Explosion Data Sensitivity to Mechanical Impact Sensitivity to Static Discharge	Not sensitive. Not sensitive.
Specific Hazards Arising from the Chemical Fine powder is capable of creating a dust explosion.	
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	Avoid contact with skin, eyes and clothing. Use personal protective equipment. Ensure adequate ventilation.
Methods for Containment	Prevent further leakage or spillage if safe to do so.
Methods for Cleaning Up	Avoid dust formation. Pick up and transfer to properly labeled containers. Ventilate area and wash spill site after material pickup is complete.

# 7. HANDLING AND STORAGE

Handling	Handle in accordance with good industrial hygiene and safety practice. Hygroscopic.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Hygroscopic.
Incompatible Products	Strong oxidizing agents.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Measures	Showers Eyewash stations Ventilation systems.
Personal Protective Equipment Eye/Face Protection Skin and Body Protection Respiratory Protection	Tightly fitting safety goggles. Wear protective gloves/clothing. 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.

#### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# 10. STABILITY AND REACTIVITY

## Stability

Stable under recommended storage conditions.

Incompatible Products	Strong oxidizing agents.
	Onong oxidizing agent

Conditions to Avoid Protect from moisture.

Hazardous Decomposition Products Carbon oxides. Nitrogen oxides (NOx). Ammonia.

Hazardous Polymerization Hazardous polymerization does not occur.

## 11. TOXICOLOGICAL INFORMATION

#### Acute Toxicity

**Product Information** 

Causes skin, eye and respiratory tract irritation.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation		
Glycine	7930 mg/kg (Rat)				
Tris hydroxymethyl aminomethane	5900 mg/kg (Rat)				

## Chronic Toxicity

Chronic Toxicity

No known effect based on information supplied.

#### **Target Organ Effects**

None known.

## 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

The environmental impact of this product has not been fully investigated.

## **13. DISPOSAL CONSIDERATIONS**

Waste Disposal Method Dispose of material in accordance with all federal, state, and local regulations.

**Contaminated Packaging** Dispose of in accordance with all federal, state and local regulations.

## 14. TRANSPORT INFORMATION

IATA Not regulated

DOT Not regulated

# 15. REGULATORY INFORMATION

**REACH Title VII Restrictions** No information available.

Chemical Name	Dangerous Substances	Organic Solvents		Harmful Substances Whose Names Are to be Indicated on the Label		Pollution Release and Transfer Registry (Class II):		Pollution Release and Transfer Registry (Class I):		Poison and Deleterious Substances Control Law:
Glycine	Not applicable	Not applicable		Not applicable		Not applicable		Not applicable		Not applicable
Tris hydroxymethyl aminomethane	Not applicable	Not	Not applicable Not applicabl		plicable	Not applicable		Not applicable		Not applicable
Component	ISHA - Harm Substance Prohibited Manufacturi Importing Transferring Supplying	es for ng, , , or	s Substances or Requiring g, Permission		Class Listing	Toxic Chemical Classification Listing (TCCL) - oxic Chemicals		Toxic Release Inventory (TRI) - I Group I		Toxic Release iventory (TRI) - Group II
Glycine 56-40-6(75-85)	Not applicat	ole	Not appli	cable	Not a	pplicable	No	t applicable		Not applicable
Tris hydroxymethyl aminomethane 77-86-1(10-20)	Not applicat	ole	Not appli	cable	Not a	pplicable	No	t applicable		Not applicable

## International Inventories

TSCA	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Does not Comply
PICCS	Complies
AICS	Complies

## U.S. 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	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

## 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).

## Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following substances which are listed hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act:.

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Glycine	56-40-6	75-85		Group II		

## CERCLA

## U.S. State Regulations

#### California Proposition 65

This product does not contain any Proposition 65 chemicals.

#### International Regulations

Mexico - Grade

No information available.

Canada

# WHMIS Hazard Class

D2B Toxic materials



## 16. OTHER INFORMATION

Issuing Date 15-Oct-2009

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**Revision Note** No information available

#### Recommended Restrictions No information available

#### Disclaimer

The information provided on this MSDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

## End of MSDS