



Issuing Date 10-Aug-2009

Revision Date 21-Mar-2012

Revision Number 1

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

Product Name TG-SDS Dry Powder

Product Code(s) 0147

Recommended Use For Further Manufacturing Use Only
Not for Human or Animal Drug Use

Synonyms TG-SDS 10X READY PACK

Company
AMRESKO, LLC
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Solon, Ohio 44139

Emergency Telephone Number Chemtrec 1-800-424-9300

Company Phone Number 1-800-448-4442

E-mail Address info@amresco-inc.com

2. HAZARDS IDENTIFICATION

GHS - Classification

Classification Skin Irritant 2 Eye Irritant 2 Acute Toxicity Oral 4 Acute Toxicity Dermal 3 Skin Sensitizer 1 Respiratory Sensitizer 1

Signal Word Danger



Hazard Statements H242 - Heating may cause a fire H302 - Harmful if swallowed H311 - Toxic in contact with skin H315 - Causes skin irritation H319 - Causes serious eye irritation H317 - May cause an allergic skin reaction H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled H335 - May cause respiratory irritation

Precautionary Statements

P280 - Wear protective gloves/protective clothing/eye protection/face protection
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray 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 P314 - Get medical attention/advice if you feel unwell

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | EC No. | REACH Reg. No. | CAS-No | Weight % | Classification |
|-------------------------------------|-------------------|----------------|----------|----------|----------------|
| Tris (hydroxymethyl)aminomethane | 201-064-4 | Not available | 77-86-1 | 10-20 | Xi;R36/37/38 |
| Sodium Dodecyl Sulfate | EEC No. 205-788-1 | Not available | 151-21-3 | 1-10 | - |

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. Consult a physician.

Inhalation Move to fresh air. If breathing becomes difficult, give oxygen.

Ingestion Clean mouth with water and afterwards drink plenty of water. Consult a physician.

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flammable Properties May be combustible at high temperatures.

Flash Point Not determined

Suitable Extinguishing Media Dry chemical, CO2, water spray or regular foam.

Hazardous Combustion Products Carbon oxides, Sulfur oxides.

Explosion Data

- Sensitivity to Mechanical Impact** Not sensitive.
- Sensitivity to Static Discharge** 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 | Safety glasses with side-shields. |
| Skin and Body Protection | Wear protective gloves/clothing. |
| 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. |
| Hygiene Measures | Handle in accordance with good industrial hygiene and safety practice. |

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|---|
| Appearance | White |
| Odor | No information available |
| Odor Threshold | No information available |
| Decomposition Temperature °C | No information available |
| Freezing Point | No information available |
| Initial Boiling Point | No information available |
| Physical State | Free-flowing Powder |
| pH | No data available |
| Flash Point | Not determined |
| Flammable Properties | May be combustible at high temperatures. |
| Autoignition Temperature | No data available |
| Boiling Point/Range | No data available |
| Melting Point/Range | No data available |
| Flammability Limits in Air | Upper No data available Lower No data available |
| Explosive Properties | No information available |
| Oxidizing Properties | No information available |
| Evaporation Rate | No data available |
| MMHG @ 37.8 C | No data available |
| Vapor Density | No data available |
| Specific Gravity | No data available |
| Solubility | No information available |
| Partition Coefficient (n-octanol/water) | No data available |
| Viscosity | No information available |

10. STABILITY AND REACTIVITY

| | |
|---|--|
| Stability | Stable under recommended storage conditions. |
| Incompatible Products | Strong oxidizing agents. |
| Conditions to Avoid | Protect from moisture. |
| Hazardous Decomposition Products | Carbon oxides. Sulfur oxides. |
| Hazardous Polymerization | Hazardous polymerization does not occur. |

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information Harmful if swallowed. Toxic in contact with skin. Sensitizer. Causes skin, eye and respiratory tract irritation.

| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|----------------------------------|--------------------|----------------------|------------------------------------|
| Tris (hydroxymethyl)aminomethane | 5900 mg/kg (Rat) | | |
| Sodium Dodecyl Sulfate | 1288 mg/kg (Rat) | 580 mg/kg (Rabbit) | 3900 mg/m ³ (Rat) 1 h |

Chronic Toxicity

Chronic Toxicity No known effect based on information supplied.

Target Organ Effects Lungs.

12. ECOLOGICAL INFORMATION

Ecotoxicity

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

| Chemical Name | Toxicity to Algae | Toxicity to Fish | Microtox | Daphnia Magna (Water Flea) |
|------------------------|--|---|----------|----------------------------|
| Sodium Dodecyl Sulfate | EC50 3.59 - 15.6 mg/L 96 h EC50 = 117 mg/L 96 h EC50 = 53 mg/L 72 h EC50 30 - 100 mg/L 96 h | LC50 15-18.9 mg/L Pimephales promelas 96 h LC50 4.06-5.75 mg/L Lepomis macrochirus 96 h LC50 4.2-4.8 mg/L Lepomis macrochirus 96 h LC50 6.2-9.6 mg/L Pimephales promelas 96 h LC50= 4.2 mg/L Oncorhynchus mykiss 96 h LC50 13.5-18.3 mg/L Poecilia reticulata 96 h LC50 5.8-7.5 mg/L Pimephales promelas 96 h LC50 9.9-20.1 mg/L Brachydanio rerio 96 h LC50 10.2-22.5 mg/L Pimephales promelas 96 h LC50 8-12.5 mg/L Pimephales promelas 96 h LC50= 4.5 mg/L Lepomis macrochirus 96 h LC50= 4.62 mg/L Oncorhynchus mykiss 96 h LC50 10.8-16.6 mg/L Poecilia reticulata 96 h LC50 22.1-22.8 mg/L Pimephales promelas 96 h LC50 4.3-8.5 mg/L Oncorhynchus mykiss 96 h LC50= 1.31 mg/L Cyprinus carpio 96 h LC50= 7.97 mg/L Brachydanio rerio 96 h | | |

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: |
|---|---|--|---|---|--|--|
| Tris (hydroxymethyl)aminomethane | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| Sodium Dodecyl Sulfate | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| Component | ISHA - Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying | ISHA - Harmful Substances Requiring Permission | Toxic Chemical Classification Listing (TCCL) - Toxic Chemicals | Toxic Release Inventory (TRI) - Group I | Toxic Release Inventory (TRI) - Group II | |
| Tris (hydroxymethyl)aminomethane 77-86-1 (10-20) | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| Sodium Dodecyl Sulfate 151-21-3 (1-10) | Not applicable | Not applicable | Not applicable | Not applicable | Not 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 | Yes |
| 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 does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

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

B - Flammable/Combustible Materials

D1B Toxic materials

D2A Very toxic materials

D2B Toxic materials



16. OTHER INFORMATION

Issuing Date 10-Aug-2009

Revision Date 21-Mar-2012

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