

Effective Date July 2012

1. IDENTIFICATION

Product identifier 2500 Series Part B Coating and Lining (All Colors)
Other means of identification PANSEAL Paste Grade, 2500PG
Recommended use Not available
Recommended restrictions None known
Manufacturer/Importer/Supplier/Distributor information
Company Name: Dynesic Technologies, Inc.
After hours telephone number 972-692-0962
Website www.dynesic.com
Email sphillips@dynesic.com
Emergency 24 hour telephone CHEMTREC: North America 1-800-424-9300
 International 1-800-527-3887
Operation hours information 7:00 a.m. to 7:00 p.m.

2. HAZARD(S) IDENTIFICATION

Physical hazards Not classified
Health hazards
 Skin corrosion/irritation Category 2
 Serious eye damage/eye irritation Category 2
 Sensitization, respiratory Category 1
 Sensitization, skin Category 1
 Specific target organ toxicity, single exposure Category 1
 Specific target organ toxicity, repeated exposure Category 2

Prevention

Wear protective gloves. Wear eye/face protection. Wash thoroughly after handling.

Environmental hazards Not classified
OSHA defined hazards Not classified
Signal word Warning

Label elements



Response

Specific treatment see Section 4 of this SDS. Wash contaminated clothing before reuse. IF exposed or concerned: Get medical advice/attention. IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage

Store in accordance with local/regional/national regulations.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC) None known

HIMS ® Rating: Health: 1
 Flammability: 1
 Instability: 0

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Chemical name	CAS number	%
BENZYL ALCOHOL	100-51-6	0 - 20
TRIETHYLENETETRAMINE	112-24-3	1 - 6
3-AMINOPROPYLTRIETHOXYSILANE	919-30-2	0 - 3
ETHYLENEDIAMINE	107-15-3	0 - 1

* Other components below reportable levels 59.84

Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact

Wash off with soap and water. Get medical attention if irritation develops and persists. Wash contaminated clothing before reuse.

4. FIRST AID MEASURES

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists. Wash contaminated clothing before reuse.
Eye contact	Rinse with water. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.
Ingestion	Rinse mouth. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Call a POISON CENTER or doctor/physician if you feel unwell.
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.
General Information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. FIRE-FIGHTING MEETHODS**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.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions 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.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

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

Methods and materials for containment and cleaning up

This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.

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.

Environmental precautions

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

7. HANDLING & STORAGE**Precautions for safe handling**

Avoid prolonged exposure. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Occupational exposure limits**

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

Components	Type	Value
ETHYLENEDIAMINE (CAS 107-15-3)	PEL	25 mg/m3
US. ACGIH Threshold Limit Values		
ETHYLENEDIAMINE (CAS 107-15-3)	TWA	10 ppm
US. NIOSH: Pocket Guide to Chemical Hazards		
ETHYLENEDIAMINE (CAS 107-15-3)	TWA	25 mg/m3 10 ppm
US. AIHA Workplace Environmental Exposure Level (WEEL) Guides		
BENZYL ALCOHOL (CAS 100-51-6)	TWA	44.2 mg/m3
TRIETHYLENETETRAMINE (CAS 112-24-3)	TWA	10 ppm 6 mg/m3 1 ppm

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

Exposure guidelines

US ACGIH Threshold Limit Values: Skin designation

ETHYLENEDIAMINE (CAS 107-15-3) Can be absorbed through the skin.

US WEEL Guides: Skin designation

TRIETHYLENETETRAMINE (CAS 112-24-3) Can be absorbed through the skin.

Appropriate engineering controls

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses; chemical goggles (if splashing is possible).

Hand protection

Chemical resistant gloves are recommended. If contact with forearms is likely wear gauntlet style gloves.

Other 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.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. PHYSICAL & CHEMICAL PROPERTIES

Appearance	Liquid
Physical state	Liquid
Form	Liquid
Color	Golden to Light Amber
Odor	Ammoniacal, Amine-like
Odor threshold	Not available
pH	Alkaline
Melting point/freezing point	4.64 °F (-15.2 °C) estimated
Initial boiling point/boiling range	401.54 °F (205.3 °C) estimated
Flash point	> 199.4 °F (> 93.0 °C) estimated
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	3 % estimated
Flammability limit upper (%)	10 % estimated
Explosive limit - lower (%)	Not available
Explosive limit - upper (%)	Not available

Vapor pressure	Not available
Vapor density	Not available
Relative density	Not available
Solubility(ies)	Partial
Solubility (water)	Partial
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	640 °F (337.78 °C) estimated
Decomposition temperature	Not available
Viscosity	Not available
Other information	
Specific Gravity	0.95

10. STABILITY & REACTIVITY

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability

Material is stable under normal conditions.

Possibility of hazardous reactions

Hazardous polymerization does not occur.

Conditions to avoid

Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

No hazardous decomposition products are known.

Conditions to avoid

Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Ingestion

Expected to be a low ingestion hazard.

Inhalation

Prolonged inhalation may be harmful.

Skin contact

Causes skin irritation.

Eye contact

Causes eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity

Not available

Germ cell mutagenicity

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

Carcinogenicity

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. This product contains crystalline silica. Silica is a known carcinogen; however in this encapsulated form the normal routes of exposure are unavailable.

Specific target organ toxicity - single exposure

Not classified

Specific target organ toxicity - repeated exposure

Not classified

Aspiration hazard

Not available

Chronic effects

Prolonged inhalation may be harmful.

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation

Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye irritation

Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Respiratory sensitization

Not available

Skin sensitization

May cause sensitization by skin contact.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed

Reproductive toxicity

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

Specific target organ toxicity - single exposure	Not classified
Specific target organ toxicity - repeated exposure	Not classified
Aspiration hazard	Not available
Chronic effects	Prolonged inhalation may be harmful.

12. ECOLOGICAL INFORMATION

<u>Product</u>	<u>Species</u>	<u>Test Results</u>
2500 Series Part B Coating and Lining (All Colors) (CAS Mixture)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	5757.0889 mg/kg estimated
Inhalation		
LC50	Rat	2942.2148 mg/l, 8 Hours estimated
<i>Oral</i>		
LD50	Mouse	4648.6997 mg/kg estimated
Dermal		
LD50	Rabbit	5757.0889 mg/kg estimated
Oral		
LD50	Mouse	4648.6997 mg/kg estimated
	Rabbit	5707.897 mg/kg estimated
	Rat	3548.4497 mg/kg estimated
Other		
LD50	Mouse	2691.874 mg/kg estimated
	Rat	894.0341 mg/kg estimated

<u>Components</u>	<u>Species</u>	<u>Test Results</u>
BENZYL ALCOHOL (CAS 100-51-6)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	2000 mg/kg
<i>Inhalation</i>		
LC50	Rat	1000 mg/l, 8 Hours
<i>Oral</i>		
LD50	Mouse	1580 mg/kg
	Rabbit	1940 mg/kg
	Rat	1230 - 3100 mg/kg
Other		
LD50	Mouse	950 mg/kg
	Rat	314 mg/kg

<u>Components</u>	<u>Species</u>	<u>Test Results</u>
ETHYLENEDIAMINE (CAS 107-15-3)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	730 mg/kg
<i>Oral</i>		
LD50	Guinea pig	470 mg/kg
	Rat	500 mg/kg
Other		
LD50	Mouse	200 mg/kg
	Rat	76 mg/kg

Ecotoxicity: This product contains a substance which is toxic to aquatic organisms.

Product	Species	Test Results
2000 Series Part B Coating and Lining (All Colors) (CAS Mixture)		
Fish LC50	Fish	474.4284 mg/l, 96 hours estimated.

Components	Species	Test Results
BENZYL ALCOHOL (CAS 100-51-6)		
Aquatic		
Fish LC50	Bluegill (Lepomis macrochirus)	10 mg/l, 96 hours

ETHYLENEDIAMINE (CAS 107-15-3)		
Aquatic		
Fish LC50	Fathead minnow (Pimephales promelas)	98.6 - 131.6 mg/l, 96 hours

* Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Partition coefficient n-octanol / water (log Kow)

BENZYL ALCOHOL	1.1
ETHYLENEDIAMINE	2.04, at pH 13

Mobility in soil No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. DISPOSAL CONSIDERATIONS

Disposal instructions

When this product as supplied is to be discarded as waste, it does not meet the definition of a RCRA waste under 40 CFR 261.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

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: DISPOSAL CONSIDERATIONS

DOT Not regulated as dangerous goods.

IATA Not regulated as dangerous goods.

IMDG Not regulated as dangerous goods.

15: REGULATORY INFORMATION

US federal regulations

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated

CERCLA Hazardous Substance List (40 CFR 302.4) Not listed

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories		
	Immediate Hazard	Yes
	Delayed Hazard	No
	Fire Hazard	No
	Pressure Hazard -	No
	Reactivity Hazard	No

TSCA Inventory List. TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated

CERCLA Hazardous Substance List (40 CFR 302.4)

ETHYLENEDIAMINE (CAS 107-15-3) Listed

US EPCRA Section 304 Extremely Haz. Subs. & CERCLA Haz. Subs.: Section 304 EHS reportable quantity

ETHYLENEDIAMINE (CAS 107-15-3) 5000 lbs.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes
 Delayed Hazard - No
 Fire Hazard - No
 Pressure Hazard - No
 Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Chemical name	CAS number	Quantity	Threshold Planning quantity
ETHYLENEDIAMINE	107-15-3	5000	10000 lbs.

SARA 311/312 No

SARA 313 (TRI reporting) Not regulated

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

ETHYLENEDIAMINE (CAS 107-15-3)

Safe Drinking Water Act (SDWA) Not regulated

US state regulations

US. Massachusetts RTK - Substance List

BENZYL ALCOHOL (CAS 100-51-6)
 ETHYLENEDIAMINE (CAS 107-15-3)
 TRIETHYLENETETRAMINE (CAS 112-24-3)

US. New Jersey Worker and Community Right-to-Know Act

ETHYLENEDIAMINE (CAS 107-15-3) 500 lbs.

US. Pennsylvania RTK - Hazardous Substances

BENZYL ALCOHOL (CAS 100-51-6)
 ETHYLENEDIAMINE (CAS 107-15-3)
 TRIETHYLENETETRAMINE (CAS 112-24-3)

US. Rhode Island RTK

ETHYLENEDIAMINE (CAS 107-15-3)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins

International Inventories

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)	No
Europe	European Inventory of Existing Commercial Chemical Substances	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

**A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) 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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Disclaimer

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.