

Effective Date July 2012

**1. IDENTIFICATION**

**Product identifier** 2000 Series Part B Coating and Lining (All Colors)  
**Other means of identification** PANSEAL, 2000PB, 2000PC, 2000CTR, 2000PG  
**Recommended use** Not available  
**Recommended restrictions** None known  
**Manufacturer/Importer/Supplier/Distributor information**  
**Company Name:** Dynesic Technologies, Inc.  
 972-692-0962  
**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  
**Environmental hazards** Not classified  
**OSHA defined hazards** Not classified  
**Label elements**



**Signal word** Warning  
**Hazard statement** Causes eye irritation. Causes skin irritation.  
**Prevention** Wear protective gloves. Wear eye/face protection. Wash thoroughly after handling.  
**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  
**Supplemental information** Not applicable

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Mixtures**

<b>Chemical name</b>	<b>CAS number</b>	<b>%</b>
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

**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)**

<b>Components</b>	<b>Type</b>	<b>Value</b>
ETHYLENEDIAMINE (CAS 107-15-3)	PEL	25 mg/m3
<b>US. ACGIH Threshold Limit Values</b>		
ETHYLENEDIAMINE (CAS 107-15-3)	TWA	10 ppm
<b>US. NIOSH: Pocket Guide to Chemical Hazards</b>		
ETHYLENEDIAMINE (CAS 107-15-3)	TWA	25 mg/m3 10 ppm
<b>US. AIHA Workplace Environmental Exposure Level (WEEL) Guides</b>		
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).

**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**

<b>Appearance</b>	Liquid
<b>Physical state</b>	Liquid
<b>Form</b>	Liquid
<b>Color</b>	Golden to Light Amber
<b>Odor</b>	Ammoniacal, Amine-like
<b>Odor threshold</b>	Not available
<b>pH</b>	Alkaline
<b>Melting point/freezing point</b>	4.64 °F (-15.2 °C) estimated
<b>Initial boiling point/boiling range</b>	401.54 °F (205.3 °C) estimated
<b>Flash point</b>	> 199.4 °F (> 93.0 °C) estimated
<b>Evaporation rate</b>	Not available
<b>Flammability (solid, gas)</b>	Not available
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	3 % estimated
<b>Flammability limit upper (%)</b>	10 % estimated
<b>Explosive limit - lower (%)</b>	Not available
<b>Explosive limit - upper (%)</b>	Not available
<b>Vapor pressure</b>	Not available
<b>Vapor density</b>	Not available
<b>Relative density</b>	Not available
<b>Solubility(ies) Solubility (water)</b>	Partial
<b>Partition coefficient (n-octanol/water)</b>	Not available
<b>Auto-ignition temperature</b>	640 °F (337.78 °C) estimated
<b>Decomposition temperature</b>	Not available
<b>Viscosity</b>	Not available
<b>Other information</b>	
<b>Specific Gravity</b>	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.

**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**

<b>Product</b>	<b>Species</b>	<b>Test Results</b>
2000 Series Part B Coating and Lining (All Colors) (CAS Mixture)		

**Acute**

**Dermal**

LD50 Rabbit 5757.0889 mg/kg estimated

**Inhalation**

LC50 Rat 2942.2148 mg/l, 8 Hours 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

<b>Components</b>	<b>Species</b>	<b>Test Results</b>
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BENZYL ALCOHOL (CAS 100-51-6)

**Acute**

**Dermal**

LD50 Rabbit 2000 mg/kg

**Inhalation**

LC50 Rat 1000 mg/l, 8 Hours

**Oral**

LD50 Mouse 1580 mg/kg

Rabbit 1940 mg/kg

Rat 1230 - 3100 mg/kg

**Other**

LD50 Mouse 950 mg/kg

Rat 314 mg/kg

<b>Components</b>	<b>Species</b>	<b>Test Results</b>
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ETHYLENEDIAMINE (CAS 107-15-3)

**Acute**

**Dermal**

LD50 Rabbit 730 mg/kg

**Oral**

LD50 Guinea pig 470 mg/kg

Rat 500 mg/kg

**Other**

LD50 Mouse 200 mg/kg

Rat 76 mg/kg

\* 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.

**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.

**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**

**Ecotoxicity** The product contains a substance which is toxic to aquatic organisms.

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

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

ETHYLENEDIAMINE (CAS 107-15-3)		
<b>Aquatic</b>		
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 are expected from this component.

**Bioaccumulative potential** No data available

**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: PHYSICAL & CHEMICAL PROPERTIES**

**DOT** Not regulated as dangerous goods.  
**IATA** Not regulated as dangerous goods.  
**IMDG** Not regulated as dangerous goods.  
**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**  
 Not available  
**Class** 55

**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)**  
 ETHYLENEDIAMINE (CAS 107-15-3) Listed  
**US EPCRA Section 304 Extremely Haz. Subs. & CERCLA Haz. Subs.: Section 304 EHS reportable quantity**

Chemical name	CAS number	Quantity	
ETHYLENEDIAMINE	107-15-3	5000 lbs.	
<b>US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b>			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.

