### **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 Recommended restrictions**Not available
None known

Manufacturer/Importer/Supplier/Distributor information Company Name: Dynesic Technologies, Inc.

After hours telephone number
Website
Email

Phone: 972-692-0962
Phone: 972-692-0962
www.dynesic.com
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
Serious eye damage/eye irritation
Category 2
Sensitization, respiratory
Category 1
Sensitization, skin
Category 1

Sensitization, respiratory

Sensitization, skin

Specific target organ toxicity, single exposure

Specific target organ toxicity, repeated exposure

Environmental hazards

Category 1

Category 1

Category 2

Not classified

**Label elements** 

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**OSHA** defined hazards

Signal word Warning

**Hazard statement** Causes eye irritation. Causes skin irritation.

**Prevention Response**Wear protective gloves. Wear eye/face protection. Wash thoroughly after handling.
Specific treatment see Section 4 of this SDS. Wash contaminated clothing before reuse.

If exposed or concerned: Get medical advice/attention. <u>IF ON SKIN</u>: Wash with plenty of soap and water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

Not classified

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)**Supplemental information
Not applicable

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Mixtures**

Chemical name	CAS number	<u>%</u>
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 - <u>1</u>
* 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.

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# 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 MEATHODS

### 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 and 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	<u>Value</u>
ETHYLENEDIAMINE (CAS 107-15-3)	PEL	25 mg/m3
US. ACGIH Threshold Limit Values		
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</b>	Level (WEEL) Gi	uides
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** 

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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 and CHEMICAL PROPERTIES

AppearanceLiquidPhysical stateLiquidFormLiquid

**Color** Golden to Light Amber **Odor** Ammoniacal, Amine-like

Odor threshold Not available Alkaline

Melting point/freezing point4.64 °F (-15.2 °C) estimatedInitial boiling point/boiling range401.54 °F (205.3 °C) estimatedFlash point199.4 °F (> 93.0 °C) estimated

**Evaporation rate**Flammability (solid, gas)
Not available
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) Solubility (water) Partial

Partition coefficient (n-octanol/water) Not available

**Auto-ignition temperature** 640 °F (337.78 °C) estimated

**Decomposition temperature**Viscosity
Not available
Not available

Other information

Specific Gravity 0.95

# 10. STABILITY and 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

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Hazardous polymerization does not occur.

#### **Conditions to avoid**

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

SDS

#### **Incompatible materials**

Strong oxidizing agents.

# Hazardous decomposition products

No hazardous decomposition products are known.

# 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Expected to be a low ingestion hazard. Ingestion Inhalation Prolonged inhalation may be harmful.

Skin contact Causes skin irritation. Causes eye irritation. Eve contact

Symptoms related to the physical, chemical and toxicological characteristics

Direct contact with eyes may cause temporary irritation.

# Information on toxicological effects

Acute toxicity

**Product** Test Results Species 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 2691.874 mg/kg estimated Mouse Rat 894.0341 mg/kg estimated Test Results Components Species BENZYL ALCOHOL (CAS 100-51-6) Acute

Dermal

LD50 Rabbit 2000 mg/kg Inhalation LC50 Rat 1000 mg/l, 8 Hours Oral Mouse LD50 1580 mg/kg Rabbit 1940 mg/kg 1230 - 3100 mg/kg Rat Other 950 mg/kg LD50 Mouse

Rat 314 mg/kg Species Test Results Components

#### ETHYLENEDIAMINE (CAS 107-15-3)

Acute Dermal

LD50 Rabbit 730 mg/kg

Oral

LD50 Guinea pia 470 ma/ka 500 mg/kg Rat

Other

200 mg/kg LD50 Mouse Rat 76 mg/kg

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

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**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)

Reproductive toxicity

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

Specific target organ toxicity - single exposure
Specific target organ toxicity - repeated exposure
Aspiration hazard
Not classified
Not available

**Chronic effects** Prolonged inhalation may be harmful.

12. ECOLOGICAL

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

<u>Product</u> <u>Species</u> <u>Test Results</u>

2000 Series Part B Coating and Lining (All Colors) (CAS Mixture)

Fish LC50 Fish 474.4284 mg/l, 96 hours estimated.

<u>Components Species Test Results</u>

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 are expected from this component.

**Bioaccumulative potential**Mobility in soil
No data available
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.

No

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14. PHYSICAL and CHEMICAL PROPERTIES

DOT Not regulated as dangerous goods. Not regulated as dangerous goods. IATA **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.

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** 

107-15-3 ETHYLENEDIAMINE 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

Inventory of Existing Chemical Substances in China (IECSC) China No European Inventory of Existing Commercial Chemical Substances Yes Europe European List of Notified Chemical Substances (ELINCS) No Europe Inventory of Existing and New Chemical Substances (ENCS) No Japan Korea No

Existing Chemicals List (ECL) New Zealand New Zealand Inventory

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7.

Philippines Philippine Inventory of Chemicals and Chemical Substances United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

No 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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Version # 03

#### **Disclaimer**

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