

Safety Data Sheet (Complies with OSHA HCS)

PANSEAL PASTE-GRADE

Section 1: Identification

**Trade Name:** PANSEAL PASTE-GRADE (2000PC, 4000TG)  
**Contact Information:** Dynesic Technologies, Inc., 15230 Surveyor Blvd., Addison, TX75001  
Phone: 972-692-0962; Fax: 972-692-0963  
**Emergency Contact:** Same As Above  
**Recommended Use:** Chemical resistant, corrosion preventing epoxy coating to be used in HVAC and Plumbing and other protective coating applications  
**Chemical Family:** Novolac Epoxies

Section 2: Hazard(s) Identification

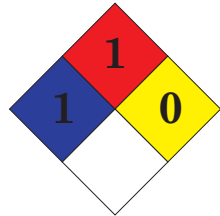
**Hazard Classification:** Skin Irritant-Category 2  
**Signal Word:** Warning  
**Hazard Statement(s):** H317 Prolonged exposure may cause an allergic skin reaction

**Pictogram:**



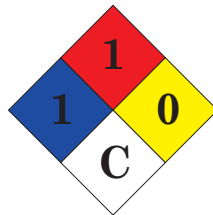
**Precautionary Statements:** P101: If medical advice is needed, have product container or label at hand  
P102: Keep out of reach of children  
P103: Read label before use  
P261: Avoid breathing dust/fume/gas/mist/vapors/spray  
P280: Wear Protective gloves/protective clothing/eye and face protection  
P333+P313: If skin irritation/rash occurs, get medical attention  
P501: Dispose of contents/container in accordance with local/regional/national and intl regulations

**NFPA Rating:**



Health: 1  
Flammability: 1  
Instability: 0  
Specific Hazard: N/A

**HIMS® Rating:**



Health: 1  
Flammability: 1  
Physical Hazard: 0  
Personal Protection Index: C

## PASTE GRADE

### Section 3: Composition/Information on Ingredients

<b>Chemical Name/Family:</b>	Epoxy
<b>Common Names/Synonyms:</b>	Epoxy Resin, Epoxy Coating, Novolac Epoxy, Two-part Epoxy
<b>CAS Numbers and other Identifiers:</b>	
<b>Resin:</b>	DGEBA – Epoxy Resin CAS# 25068-38-6 30%-40% OSHA/PEL – NE ACGIH/TLV - NE DGEBF – Epoxy Resin CAS#28064-14-4 10%-20% TALC – CAS#14807-96-6 5%-10% OSHA/PEL – 2mg /m <sup>3</sup> ACGIH/TLV – 2mg/m <sup>3</sup> Titanium Dioxide – CAS# 13463-67-7 1%-5% OSHA/PEL – 5mg/mg <sup>3</sup> ACGIH/TLV – 10mg/mg <sup>3</sup> Mica – CAS# 12001-26-2 2%-5% OSHA/PEL – 20Mppcf ACGIH/TLV – 3mg/m <sup>3</sup> Ceramic Microspheres CAS# 68402-68-4 20%-40% OSHA/PEL – 15mg/m <sup>3</sup> ACGIH/TLV – 10mg/m <sup>3</sup>
<b>Hardener:</b>	Modified Polyamidoamine CAS# mixture 20%-30% OSHA/PEL NE ACGIH/TLV NE Polyamide CAS# mixture 60%-80% OSHA/PEL NE ACGIH/TLV NE
<b>Trade Secret Claim:</b>	Please note that the exact concentration of each chemical contained in the product has been withheld as the exact formula needs to remain a trade secret.

### Section 4: First Aid Measures

#### Description of first-aid measures for specific exposure:

<b>For Ingestion:</b>	<u>Resin</u> - If large amounts are ingested, induce vomiting if conscious. <u>Hardener</u> - Call physician immediately. Give generous amounts of water if conscious. <b>Do not</b> induce vomiting.
<b>For Skin Exposure:</b>	<u>Resin</u> - Promptly wash with mild soap and water. <u>Hardener</u> - Promptly wash with mild soap and water.
<b>For Inhalation:</b>	<u>Resin</u> - Remove to fresh air. Give oxygen if breathing is difficult. <u>Hardener</u> - Remove to fresh air. Give oxygen if breathing is difficult.
<b>For Eye Exposure:</b>	<u>Resin</u> - Immediately flush eyes with water for 15 minutes. Call physician. <u>Hardener</u> - Immediately flush eyes with water for 15 minutes. Call physician.

#### Description of overexposure symptoms and effects:

Overexposure to this material can cause chemical burns to the skin and eyes and inhalation of vapors can cause severe respiratory irritation. Can cause allergic skin and respiratory reactions. Can have effects on the nervous system evidenced by central nervous system depression, tremors, paralysis, diarrhea and vasodilation. May also cause headache, nausea and dizziness.

#### Medical Conditions Aggravated by Exposure:

Allergy, eczema or skin conditions.

#### Additional Information:

Promptly remove wet contaminated non-imperious clothing, wash before reuse.  
Destroy contaminated leather and absorbent shoes.

## Section 5: Fire-Fighting Measures

	Resin	Hardener
<b>Flash Point:</b>	>300°F (149°C)	>200°F (93°C)
<b>Flash Point Method Used:</b>	Closed cup	
<b>Fire Fighting Extinguishing Media:</b>	Carbon Dioxide, foam, dry chemical	
<b>Fire Fighting Equipment:</b>	Use a self-contained breathing apparatus	
<b>Fire and Explosion Hazards:</b>	Decomposition and combustion products may be toxic.	

## Section 6: Accidental Release Measures

<b>Steps to be taken if material is spilled:</b>		
<b>Resin</b>	Shovel into closeable container for disposal.	
<b>Hardener</b>	Absorb into sand or other absorbent material. Shovel into closeable container and dispose of in professional manner.	

## Section 7: Handling and Storage

<b>Handling precautions:</b>	Do not get in eyes, on skin, on clothing. Do not breathe vapor, mist or spray. Use only with adequate ventilation. Individuals should wash thoroughly after handling. For industrial use only.
<b>Storage Information:</b>	Keep away from heat, sparks and open flame. Ground and bond metal containers for liquid transfer to avoid static sparks. Store at temperatures between 2°C and 40°C in tightly closed containers in dry area to prevent moisture and carbon dioxide contamination.

## Section 8: Exposure Controls/Personal Protection

<b>OSHA PELs:</b>	N/A
<b>ACGIH TLVs:</b>	N/A
<b>Personal Protective Equipment:</b>	Wear protective equipment to prevent exposure and personal contact
<b>Skin Protection:</b>	Impervious gloves
<b>Respiratory Protection:</b>	Organic chemical cartridge respirator if needed in non-vented area
<b>Eye Protection:</b>	Splash-proof chemical goggles
<b>Engineering Controls:</b>	Good general mechanical ventilation and local exhaust

## Section 9: Physical and Chemical Properties

	Resin	Hardener
<b>Appearance:</b>	Grey	Reddish Brown
<b>Odor:</b>	None	Slight sweet odor
<b>Physical State:</b>	Liquid	Liquid
<b>Solubility in Water (% by weight):</b>	Negligible	Negligible
<b>Melting Point:</b>	<0° F (-18° C)	<0° F (-18° C)
<b>Density:</b>	1.41	0.97
<b>pH:</b>	ca 5	ca 10

## Section 10: Stability and Reactivity

<b>Reactivity:</b>	Non Reactive
<b>Stability:</b>	Stable
<b>Incompatible Materials:</b>	Strong acids, oxidizers and bases
<b>Hazardous Decomposition Products:</b>	
	Resin: Carbon Monoxide, Carbon Dioxide, Phenolics
	Hardener: Carbon Monoxide, Carbon Dioxide, Phenolic Nitrogen Oxides and Compounds
<b>Hazardous Polymerization:</b>	
	Resin: Will not occur
	Hardener: Do not heat in bulk as dangerous decomposition may occur, liberating toxic fumes.

## Section 11: Toxicological Information

<b>Acute Oral Effects (Ingestion):</b>	<u>Resin</u> - LD <sub>50</sub> (rabbits): 4000 mg/kg <u>Hardener</u> - LD <sub>50</sub> (rabbits): 3000 mg/kg
<b>Sensitization:</b>	Can cause skin and respiratory sensitization
<b>Skin Irritation:</b>	Irritant
<b>Eye Irritation:</b>	Irritant

## Section 12: Ecological Information

<b>Additional Information:</b>	Amines, in general, may be toxic to aquatic organisms. Epoxyes are only slightly soluble in water.
<b>Aquatic Toxicity:</b>	No further relevant information available
<b>Persistence and Degradability:</b>	No further relevant information available
<b>Biocumulative Potential:</b>	No further relevant information available
<b>Mobility in Soil:</b>	No further relevant information available

## Section 13: Disposal Considerations

<b>Waste Disposal Method:</b>	Dispose in accordance with international, federal (US), state (US) and local regulations
<b>Recommendations:</b>	Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

## Section 14: Transport Information

<b>DOT, ADR, AND IMDG, IATA:</b>	Non-hazardous for transport
<b>Hazard Class under:</b>	
<b>DOT, ADR, AND IMDG, IATA:</b>	Non-hazardous for transport
<b>Marine Pollutant:</b>	No
<b>Notes:</b>	Not Regulated under DOT, ADR, AND, IMDG, IATA

## Section 15: Regulatory Information

Occupational Safety and Health Act (OSHA): This Material Safety Data Sheet (MSDS) has been prepared in compliance with the federal OSHA Hazard Communication Standard 29 CFR 1910.1200(g). This product is considered to be a hazardous chemical under that standard.



Resource Conservation and Recovery Act (RCRA): Not a hazardous waste under RCRA (40 CFR 261).

Toxic Substances Control Act (TSCA): All ingredients are on the TSCA inventory and are exempt as per 40CFR723.50 Low Volume Exemption(LVE) and Low Environmental Release and Low Human Exposure Exemption (LoREX).

SARA Title III: Section 304 - CERCLA: Not listed.

SARA Title III: Section 313 Toxic Chemical List (TCL): This product does not contain a toxic chemical for routine annual "Toxic Chemical Release Reporting" under Sec. 313 (40 CFR 372). This information must be included in all MSDS's that are copied and distributed for this material.

## Section 16: Other Information

This SDS was prepared in accordance with the new OSHA HCS requirements that will go into effect for manufacturers of chemicals on June 2015. This SDS replaces all preceding versions of MSDS and complies with all current regulations.

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