

SECTION 1: Product and Company Identification

Product Name: THERMOBOND 3
Recommended Use: Polymeric powder coating filler

Manufacturer Information:

DURA – CHEM, INC.
18327 PASADENA STREET
LAKE ELSINORE, CA 92530

Phone: (951) 245-7778
Phone: (800) 447-5008
Fax: (951) 245-7743
Emergency Number: INFOTRAC (800)-468-1263

SECTION 2: Hazards Identification**GHS Classification:**

Serious Eye Damage/Eye Irritation; Category 2B, H320
Skin Sensitization: Category 1, H317
Carcinogenicity: Category 1A, H350
Specific Target Organ Toxicity (repeated exposure): Category 1, H372

GHS Label Elements:

Signal Word: Danger

Hazard Statements:

H317 May cause an allergic skin reaction
H320 Causes eye irritation
H350 May cause cancer
H372 Causes damage to organs (respiratory system) through prolonged or repeated exposure

Precautionary Statements:

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P281 Use personal protective equipment as required.
P302+P352 IF ON SKIN: Wash with plenty of water.
P308+P313 IF exposed or concerned: Get medical advice/ attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P314 Get medical advice/attention if you feel unwell.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405 Store locked up.
P501 Dispose of contents/container to an appropriate waste treatment plant.

SECTION 3: Composition/Information on Ingredients

Chemical Name	CAS#	%
Di(4-Hydroxyphenyl)isopropylidene diglycidyl ether-di(4-Hydroxyphenol) isopropylidene copolymer	25036-25-3	10-20
Diethylenetriamine	111-40-0	<25
1,2-Benzenedicarboxylic acid, Di-C8-C10 branched alkyl esters, C9-rich (Diisononyl phthalate)	68515-48-0	<25
Mica group minerals	12001-26-2	5-10
Quartz silica	14808-60-7	1-5
Titanium Dioxide	13463-67-7	1-5

The specific chemical identities and/or exact composition of remaining ingredients are being withheld as trade secrets.

SECTION 4: First Aid Measures**General**

Victims of exposure must be taken for medical attention even if exposure is suspected. When possible bring along copy of label and MSDS to health professional.

Inhalation:	If inhaled remove individual to fresh air. If breathing is difficult give oxygen.
Skin Contact:	Flush the affected area with water for 15 minutes minimum. Remove exposed or contaminated clothing and shoes. Wash contaminated clothing before reuse. Seek medical attention if irritation persists.
Eye Contact:	Remove contact lenses if present. Rinse eyes thoroughly with water for 15 minutes minimum. Seek medical attention if irritation persists.
Ingestion:	If conscious give one cup of water or milk if available and transport to a medical facility. Do not give anything by mouth to an unconscious person.
Most important symptoms acute or delayed:	The most important symptoms are described in Sections 2 and 11.
Recommendations for immediate medical care and special treatment:	Not applicable.

SECTION 5: Fire Fighting Measures

Suitable extinguishing media:	Carbon dioxide, extinguishing powder or water spray
Unsuitable extinguishing media:	Not available
Specific hazards arising during fire:	Combustion can produce oxides of carbon, oxides of nitrogen, aldehydes
Firefighting equipment:	Firefighters should wear suitable protective equipment
Firefighting instructions:	Evacuate personnel to a safe area. Firefighters should use self contained breathing equipment and protective clothing. Keep containers cool with water spray.

SECTION 6: Accidental Release Measures

Personal Precautions:	Wear appropriate protective equipment and clothing during clean up. Keep unprotected persons away.
Environmental Precautions	Do not allow product to enter sewers, surface or ground waters.
Methods and materials for containment and cleanup:	Contain and recover liquid when possible. Absorb with suitable absorbent and place in a chemical waste container for proper disposal (see Section 13, Disposal Considerations).

SECTION 7: Handling and Storage

Precautions for safe handling:	As with all chemical products, avoid contact and wash thoroughly after handling. Do not eat, drink or smoke while using this product. Use only in well-ventilated areas. Remove contaminated clothing and protective equipment before entering eating areas.
Conditions for safe storage including incompatibilities:	All personnel who handle this product should be trained in its safe handling. Store tightly closed in cool, dry, ventilated area. Keep out of direct sunlight and away from heat and incompatible materials. Avoid contact with acids, oxidizing agents, and caustics.

SECTION 8: Exposure Controls/Personal Protection**Exposure limit values**

Material	CAS#	List	Type	Value
Di(4-Hydroxyphenyl)isopropylidene diglycidyl ether-di(4-Hydroxyphenol) isopropylidene copolymer	25036-25-3	OSHA	PEL	Not established
Diethylenetriamine	111-40-0	OSHA ACGIH	PEL TLV	1 ppm 1 ppm (skin)
1,2-Benzenedicarboxylic acid, Di-C8-C10 branched alkyl esters, C9-rich	68515-48-0	OSHA	PEL	Not established
Mica group minerals	12001-26-2	ACGIH OSHA	TWA TWA	3 mg/m3 (respirable fraction) 20 million particles/ft3
Quartz silica	14808-60-7	ACGIH OSHA	TWA TWA TWA	0.025 mg/m3 (respirable fraction) 0.3 mg/m3 (concentration as total dust) 0.1 mg/m3 (concentration respirable) (2.4 million particles/ft3)
Titanium Dioxide	13463-67-7	OSHA	TWA	15 mg/m3 (as total dust)

Appropriate Engineering Controls:	Provide sufficient mechanical (general/and or local exhaust) ventilation to maintain exposure below exposure guidelines, if applicable, or below levels that cause known, suspected, or adverse effects.
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Personal Protective Measures

Eye/face protection:	Use safety glasses and full face shield.
Hand protection:	Use chemically-resistant gloves.
Respiratory protection:	Not required under normal conditions of use. If airborne concentrations exceed applicable exposure limits, use NIOSH approved respiratory protection.

Thermal hazards: Not available

General hygiene considerations: Handle in accordance with good industrial hygiene and safety practice. Eyewash station and safety shower should be in vicinity of work area.

SECTION 9: Physical and Chemical Properties

Appearance:	Light green pliable semisolid (when uncured)
Odor:	Faint
Odor threshold:	Not available
Specific gravity:	Not applicable
pH: (5% solution)	Not applicable
Solubility in water:	insoluble
Viscosity:	Not available
Melting point:	Not available
Freezing point:	Not available
Initial boiling point and boiling range:	Not available
Flash point:	Not available
Evaporation rate:	Not available
Flammability (solid, gas):	Not available
Upper/Lower flammability or explosive limits (%)	
Flammability limit-lower:	Not available
Flammability limit-upper:	Not available
Explosive limit-lower:	Not available
Explosive limit-upper:	Not available
Vapor pressure	Not available
Vapor density	Not available
Relative density	Not available
Partition coefficient (octanol:water)	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available

SECTION 10: Stability and Reactivity

Reactivity:	No reactivity hazards are known.
Chemical Stability:	Material is stable under normal conditions of storage and handling.
Possibility of hazardous reactions:	No hazardous reactions are known under normal conditions of use.
Conditions to avoid:	Keep away from heat, sparks, open flames.
Materials to avoid:	Keep away from incompatible materials (strong acids, oxidizing agents, caustics).

Hazardous decomposition products:

Decomposition may generate oxides of carbon and nitrogen

SECTION 11: Toxicological Information**Acute Toxicity:**

Ingredient	Route	Species	Value
Di(4-Hydroxyphenyl)isopropylidene diglycidyl ether-di(4-Hydroxyphenol) isopropylidene copolymer	Dermal	Rat	LD 50 >1,600 mg/kg
	Ingestion	Rat	LD 50 >1,000 mg/kg
Mica group minerals	Dermal	Estimated	> 5000 mg/kg
	Ingestion	Estimated	2000-5000 mg/kg
Titanium Dioxide	Dermal	Rabbit	LD 50 > 10,000 mg/kg
	Inhalation	Rat	LC 50 > 6.82 mg/L (4hours)
	Ingestion	Rat	LD 50 > 10,000 mg/kg
Quartz silica	Dermal	Estimated	> 5000 mg/kg
	Ingestion	Estimated	2000-5000 mg/kg
Diethylenetriamine	Oral	Rat	LD 50 1080 mg/kg

Please contact Dura-Chem at the address or phone number listed on the first page of the SDS for additional toxicological information.

Potential health effects:

Note: Dust produced from cutting, sanding or grinding cured material may cause skin, eye and respiratory effects.

Skin:	May cause skin irritation. May cause allergic skin reaction (non-photo induced). Symptoms include swelling, redness, blistering and itching.
Eyes:	May cause moderate eye irritation with redness, swelling, pain and blurred vision.
Inhalation:	Dust from cutting grinding, sanding or machining may cause irritation of the respiratory tract with cough, sneezing, hoarseness, and nose and throat pain. May cause target organ effects after inhalation.
Ingestion:	May cause abdominal pain, stomach upset, nausea, vomiting and diarrhea.

Reproductive toxicity:

Contains Diisononyl phthalate which may have effects on reproduction.

Specific target organ toxicity (STOT) single dose:

Not available

Specific target organ toxicity (STOT) repeated exposure

Prolonged or repeated inhalation of dust may cause silicosis and pneumoconiosis.

Delayed and immediate effects of exposure:

Prolonged or repeated inhalation of dust may cause silicosis and pneumoconiosis.
May cause cancer with long term exposure.

Carcinogenicity: Contains chemicals which can cause cancer. Diisononyl phthalate ingredient (CAS No. 68515-48-0 has produced tumors in animal studies.

Ingredient	CAS No.	Regulation	Description
Silica, crystalline, air respirable	14808-60-7	NTP	Known human carcinogen
Quartz silica	14808-60-7	IARC	Group 1: Carcinogenic to humans
Titanium dioxide	13463-67-7	IARC	Group 2B: Possible human carcinogen

SECTION 12: Ecological Information

Ecotoxicity: Ecotoxicological information for the product mixture is not available. Diglycidyl ether component CAS # 25036-25-3 is expected to have low bioconcentration potential. Please contact Dura-Chem at the address or phone number listed on the first page of the SDS for additional toxicological information.

Bioaccumulation potential: Not available.

Mobility: Not available.

Other adverse effects: Not available.

SECTION 13: Disposal Considerations

Disposal instructions: Waste disposal must be in accordance with appropriate US Federal, State and Local regulations.

Disposal of contaminated containers or packaging: Dispose of as unused product.

SECTION 14: Transportation Information

UN Number: Not Applicable

UN proper shipping name: Epoxy Coating

DOT Class: Epoxy Coating

Transport hazard class: Not Applicable

IATA: Not regulated for transport

Guide Number: Not Applicable

Packing group: Not Applicable

Marine pollutant: No

SECTION 15: Regulatory Information

Toxic Substances Control Act (TSCA): All components of this product are on the TSCA Inventory or are exempt from reporting requirements.

SARA 302 Extremely Hazardous Substances: No

SARA 311/312 Classification:

Immediate hazard	Yes
Delayed hazard	Yes
Fire hazard	No
Reactive hazard	No
Pressure hazard	No

SARA 313 Components: No

CERCLA Hazardous Substance: No

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986):

This product contains chemicals known to the State of California to cause cancer

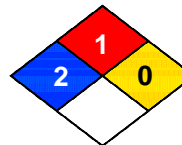
Component	CAS#	Amount
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Vinyl chloride monomer	75-01-4	
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1,2-Benzenedicarboxylic acid, Di-C8-C10 branched alkyl esters, C9-rich (Diisononyl phthalate)	68515-48-0	< 25%
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HMIS Information:

Health	2
Flammability	1
Reactivity	0
Personal Protection	



SECTION 16: Other Information

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