

**CARBONBOND CARBON FIBER WALL BRACE FILLER COMPOUND SAFETY INFORMATION**

**COMPANY IDENTIFICATION**

Intech Anchoring Systems  
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**777 RESIN SAFETY INFORMATION**

**IDENTIFICATION**

Product Identifier:  
Product Name: 777 Resin.

Other Means of Identification:  
Product Code: 777 Part A.  
Synonyms: None.

Recommended Use of the Chemical and Restrictions on Use:  
Recommended Use: Industrial coatings.  
Uses Advised Against: No information available.

**HAZARDS IDENTIFICATION**

Classification:  
OSHA Regulatory Status: This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) Category 2.  
Skin Corrosion/Irritation: Category 2A.  
Serious Eye Damage/Eye Irritation: Category 1.  
Skin Sensitization: Category 1.

Label Elements: Emergency Overview.  
Warning.  
Hazard statements.  
Causes skin irritation.  
Causes serious eye irritation.  
May cause an allergic skin reaction.



## PHYSICAL PROPERTIES

Appearance: Viscous paste.  
Physical State: Solid.  
Odor: Slight sweet.

## PRECAUTIONARY STATEMENTS

Prevention: Wash face, hands and any exposed skin thoroughly after handling.  
Wear protective gloves/protective clothing/eye protection/face protection.  
Avoid breathing dust/fume/gas/mist/vapors/spray.  
Contaminated work clothing should not be allowed out of the workplace.

Response:  
If in Eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.  
If on Skin: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation or rash occurs, get medical advice/attention.

Disposal: Dispose of contents/container to an approved waste disposal plant.

Hazards Not Otherwise Classified (HNOC): Not applicable.

## OTHER INFORMATION

May be harmful if swallowed. Harmful to aquatic life with long lasting effects.  
Unknown Acute Toxicity: 0% of the mixture consists of ingredient(s) of unknown toxicity.

## COMPOSITION/INFORMATION ON INGREDIENTS

Substance: Not applicable.  
Mixture:

Chemical Name:	CAS No:	Weight (%):
Quartz*	14808-60-7	30-60
Bisphenol A-epichlorohydrin polymer*	25068-38-6	30-60
Phenol, polymer with formaldehyde, glycidyl ether*	28064-14-4	3-7
Silica, amorphous, precipitated and gel*	112926-00-8	1-5
Titanium dioxide*	13463-67-7	1-5

\*The exact percentage (concentration) of composition has been withheld as a trade secret.



## FIRST AID MEASURES

General Advice:	If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.
Eye Contact:	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.
Skin Contact:	Wash off immediately with plenty of water for at least 15 minutes. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.
Inhalation:	Remove to fresh air. If symptoms persist, call a physician.
Ingestion:	Rinse mouth. Drink plenty of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.
Self-Protection of the First Aider:	Use personal protective equipment as required.
Most Important Symptoms and Effects, Both Acute and Delayed:	
Symptoms:	May cause redness and tearing of the eyes. May cause skin irritation. Redness.
Indication of any immediate medical attention and special treatment needed:	
Note to Physicians:	May cause sensitization in susceptible persons. Treat symptomatically.

## FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry
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Unsuitable Extinguishing Media: chemical, CO<sub>2</sub>, sand, earth, water spray or regular foam. Do not use a solid water stream as it may scatter and spread fire.

Specific Hazards Arising from the Chemical: In the event of fire and/or explosion do not breathe fumes. May cause sensitization in susceptible persons. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Explosion Data:

Sensitivity to Mechanical Impact: None.

Sensitivity to Static Discharge: None.

Protective Equipment and Precautions for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protective equipment as required. Avoid contact with eyes and skin. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Environmental Precautions: Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Methods for Containment: Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up: Use personal protective equipment as required. Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly.

## HANDLING AND STORAGE

Precautions for Safe Handling: Use personal protective equipment as required. Ensure adequate ventilation, especially in confined areas. Use with local exhaust ventilation. Do not breathe dust/fume/gas/mist/vapors/spray.

Storage Conditions: Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers.

Incompatible Materials: Strong oxidizing agents. Strong acids. Strong bases.

## EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters:  
Exposure Guidelines:



Chemical Name:	ACGIH TLV:	OSHA PEL:	NOISH IDLH:
Quartz 14808-60-7	TWA: 0.025 mg/ m <sup>3</sup> respirable particulate matter	TWA: 50 Qg/m <sup>3</sup> TWA: 50 Qg/m <sup>3</sup> excludes construction work, agricultural operations, and exposures that result from the processing of sorptive clays: (250)/ (%SiO <sub>2</sub> + 5) mppcf TWA respirable fraction: (10)/ (%SiO <sub>2</sub> + 2) mg/m <sup>3</sup> TWA respirable fraction	IDLH: 50 mg/m <sup>3</sup> respirable dust TWA: 0.05 mg/m <sup>3</sup> respirable dust
Silica, amorphous, precipitated and gel 112926-00-8	-	TWA: 20 mppcf : (80)/( % SiO <sub>2</sub> ) mg/m <sup>3</sup> TWA	-
Titanium dioxide 13463-67-7	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup> total dust	IDLH: 5000 mg/m <sup>3</sup> TWA: 2.4 mg/m <sup>3</sup> CIB 63 fine TWA: 0.3 mg/m <sup>3</sup> CIB 63 ultrafine, including engineered nanoscale

NIOSH IDLH:

Appropriate Engineering Control:  
Engineering Controls:

Immediately Dangerous to Life or Health.

Showers.  
Eyewash stations.  
Ventilation systems.

Personal Protective Equipment:

Eye/Face Protection:  
Skin and Body Protection:  
Respiratory Protection:

Wear safety glasses with side shields (or goggles).  
Wear protective gloves and protective clothing.  
If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Regular cleaning of equipment, work area and clothing is recommended.

General Hygiene Considerations:

## PHYSICAL AND CHEMICAL PROPERTIES

Physical State:

Appearance:

Odor:

Odor Threshold:

Color:

Solid.

Viscous paste.

Slight sweet.

No Information available.

White pigmented.



<b>Property:</b>	<b>Values:</b>	<b>Remarks/Methods:</b>
pH:	No informaton available.	
Melting Point/Freezing Point:	No informaton available.	
Boiling Point/Boiling Range:	> 200°C / > 292°F.	
Flash Point:	150°C / > 302°F.	
Evaporation Rate:	No information available.	
Flammability (solid, gas):	No information available.	
Flammability Limit in Air:		
Upper Flammability Limit:	No information available.	
Lower Flammability Limit:	No information available.	
Vapor Pressure:	No information available.	
Vapor Density:	No information available.	
Relative Density:	1.53 g/cm <sup>3</sup> .	
Water Solubility:	Partially soluble.	
Solubility in Other Solvents:	No information available.	
Partition Coefficient:	No information available.	
Autoignition Temperature:	No information available.	
Decomposition Temperature:	No information available.	
Kinematic Viscosity:	No information available.	
Dynamic Viscosity:	No information available.	
Explosive Properties:	Not an explosive.	
Oxidizing Properties:	Not applicable.	
Other Information:		
Softening Point:	No information available.	
Molecular Weight:	No information available.	
VOC Content (%):	0 g/L.	
Density:	No information available.	
Bulk Density:	No information available.	

## STABILITY AND REACTIVITY

Reactivity:	No data available.
Chemical Stability:	Stable under recommended storage conditions.
Possibility of Hazardous Reactions:	None under normal processing.
Conditions to Avoid:	Elevated Temperature. Incompatible materials.
Incompatible Materials:	Strong oxidizing agents. Strong acids. Strong bases.
Hazardous Decomposition Products:	Thermal decomposition can lead to release of irritating and toxic gases and vapors.

## TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure:	
Inhalation:	Based on available data, the classification criteria are not met.
Eye Contact:	Irritating to eyes.
Skin Contact:	Irritating to skin. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.
Ingestion:	Based on available data, the classification criteria are not met.



Chemical Name:	Oral LD50:	Dermal LD50:	Inhalation LC50:
Bisphenol A-epichlorohydrin polymer 25068-38-6	= 11400 mg/kg ( Rat )	-	-
Titanium dioxide 13463-67-7	> 10000 mg/kg ( Rat )	-	-

Information on Toxicological Effects:

Symptoms:

May cause skin irritation. May cause an allergic skin reaction. May cause redness and tearing of the eyes. Delayed and immediate effects as well as chronic effects from short and long-term exposure.

Sensitization:

May cause sensitization by skin contact.

Germ Cell Mutagenicity:

Based on available data, the classification criteria are not met.

Carcinogenicity:

This product contains titanium dioxide which is classified as a possible carcinogen when present as respirable dust. This is not relevant for this product since it is a liquid. This product contains crystalline silica (quartz) in a non-respirable form. Inhalation of crystalline silica is unlikely to occur from exposure to this product.

Chemical Name:	ACGIH:	IARC:	NTP:	OSHA:
Quartz 14808-60-7	A2	Group 1	Known	X
Silica, amorphous, precipitated and gel 112926-00-8	-	Group 2	-	-
Titanium dioxide 13463-67-7	-	Group 2B	-	X

ACGIH (American Conference of Governmental Industrial Hygienists):

A2:

Suspected Human Carcinogen.

IARC (International Agency for Research on Cancer):

Group 1:

Carcinogenic to Humans.

Group 2B:

Possibly Carcinogenic to Humans.

Group 3:

Not Classifiable as to Carcinogenicity in Humans.

NTP (National Toxicology Program):

Known:

Known Carcinogen.

OSHA (Occupational Safety and Health Administration of the US Department of Labor):

X:

Present.

Reproductive Toxicity:

Based on available data, the classification criteria are not met.

STOT:

Single Exposure:

Based on available data, the classification criteria are not met.

Repeated Exposure:

Based on available data, the classification criteria are not met.

Chronic Toxicity:

Avoid repeated exposure.

Target Organ Effects:

Eyes, Skin, Central nervous system, Respiratory system, lungs.

Aspiration Hazard:

Based on available data, the classification criteria are not met.

Numerical Measures of Toxicity:

Product information.



The following values are calculated based on chapter 3.1 of the GHS document:  
ATEmix (oral) 4,000.00 mg/kg.

## ECOLOGICAL INFORMATION

Ecotoxicity: Harmful to aquatic life with long lasting effects. 56 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.

Chemical Name:	Algae/aquatic plants:	Fish:	Crustacea:
Phenol, polymer with formaldehyde, glycidyl ether 28064-14-4	-	1 - 10: 96 h mg/L LC50	1 - 10: 24 h Daphnia magna mg/L EC50

Persistence and Degradability: No information available.  
Bioaccumulation: No information available.

## DISPOSAL CONSIDERATIONS

Waste Treatment Methods:  
Disposal of Wastes: Disposal should be in accordance with applicable regional, national and local laws and regulations.  
Contaminated Packaging: Do not reuse container.

## TRANSPORT INFORMATION

DOT: Not regulated.  
TDG: Not regulated.  
IATA: Not regulated.  
IMDG: Not regulated.

## REGULATORY INFORMATION

TSCA: Complies.  
DSL/NDSL: Complies.  
EINECS/ELINCS: Complies.  
IECSC: Complies.  
KECL: Complies.  
PICCS: Complies.  
AICS: Complies.

Legend:  
TSCA: United States Toxic Substances Control Act Section 8(b) Inventory.  
DSL/NDSL: Canadian Domestic Substances List/Non-Domestic Substances List.  
EINECS/ELINCS: European Inventory of Existing Chemical Substances/ European List of Notified Chemical Substances.  
ENCS: Japan Existing and New Chemical Substances.  
IECSC: China Inventory of Existing Chemical Substances.  
KECL: Korean Existing and Evaluated Chemical Substances.  
PICCS: Philippines Inventory of Chemicals and Chemical Substances.  
AICS: Australian Inventory of Chemical Substances.





US Federal Regulations:

SARA 313:

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories:

Acute Health Hazard: Yes.  
Chronic Health Hazard: No.  
Fire Hazard: No.  
Sudden Release of Pressure Hazard: No.  
Reactive Hazard: No.

CWA (Clean Water Act):

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA:

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations:

California Proposition 65:

This product contains the following Proposition 65 chemicals.

Chemical Name:	California Proposition 65:
Quartz - 14808-60-7	Carcinogen
Titanium dioxide - 13463-67-7	Carcinogen

U.S. State Right-to-Know Regulations:

Chemical Name:	New Jersey:	Massachusetts:	Pennsylvania:
Quartz 14808-60-7	X	X	X
Silica, amorphous, precipitated and gel 112926-00-8	X	X	X
Titanium dioxide 13463-67-7	X	X	X

U.S. EPA Label Information:

EPA Pesticide Registration:

Number Not applicable.

**OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

NFPA:

Health Hazards: 2  
Flammability: 1  
Instability: 0  
Physical and Chemical Properties: -



HMIS:

Health Hazards:	2
Flammability:	1
Physical Hazards:	0
Personal Protection:	X

Issue Date:	15-Mar-2016.
Revision Date:	21 June-2024.
Revision Note:	No information available.

Disclaimer:

The information provided in this Material 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. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state, or provincial, and local laws.



## 777 HARDENER SAFETY INFORMATION

### IDENTIFICATION

Product Identifier:	
Product Name:	777 Resin.
Other Means of Identification:	
Product Code:	777 Part B.
Synonyms:	None.
Recommended Use of the Chemical and Restrictions on Use:	
Recommended Use:	Industrial coatings.
Uses Advised Against:	No information available.

### HAZARDS IDENTIFICATION

Classification:	
OSHA Regulatory Status:	This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)
Acute Oral Toxicity:	Category 4.
Skin Corrosion/Irritation:	Category 2.
Serious Eye Damage/Eye Irritation:	Category 2.
Skin Sensitization:	Category 1.
Label Elements:	Emergency Overview. Warning. Hazard statements. Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction.



### PHYSICAL PROPERTIES

Appearance:	Viscous paste.
Physical State:	Solid.
Odor:	Slight amine.

### PRECAUTIONARY STATEMENTS

Prevention:	Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink, or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace.
Response:	
If in Eyes:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.



If on Skin: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation or rash occurs, get medical advice/attention.

If Swallowed: Call a Poison Center or doctor/physician if you feel unwell. Rinse mouth.

Disposal: Dispose of contents/container to an approved waste disposal plant.

Hazards Not Otherwise Classified (HNOC): Not applicable.

## OTHER INFORMATION

May be harmful if swallowed. Harmful to aquatic life with long lasting effects.

Unknown Acute Toxicity: 0% of the mixture consists of ingredient(s) of unknown toxicity.

## COMPOSITION/INFORMATION ON INGREDIENTS

Substance: Not applicable.

Mixture:

Chemical Name:	CAS No:	Weight (%):
Quartz*	14808-60-7	30-60
Amine blend*	Proprietary	10-30
Wollastonite (Ca(SiO <sub>3</sub> ))*	13983-17-0	10-30
2,4,6-Tri(dimethylaminomethyl)phenol*	90-72-2	3-7
Diethylenetriamine*	111-40-0	1-5
1,5-Pentanediamine, 2-methyl-*	15520-10-2	1-5
Silica, amorphous, precipitated and gel*	112926-00-8	1-5

\*The exact percentage (concentration) of composition has been withheld as a trade secret. If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

## FIRST AID MEASURES

General Advice: In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). If symptoms persist, call a physician.

Eye Contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

Skin Contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Seek immediate medical attention/advice. For minor skin contact, avoid spreading material on unaffected skin. If skin irritation persists, call a physician.

Inhalation: Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If symptoms persist, call a physician.

Ingestion: Call a physician or poison control center immediately. Rinse mouth. Drink plenty of water. Do not induce vomiting without medical advice.



Self: Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Most Important Symptoms and Effects, Both Acute and Delayed:  
Symptoms: May cause redness and tearing of the eyes. May cause skin irritation. May result in permanent damage including blindness. May cause allergic skin reaction. Coughing and/or wheezing.

Indication of any immediate medical attention and special treatment needed:  
Note to Physicians: Treat symptomatically.

## FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical, CO<sub>2</sub>, sand, earth, water spray or regular foam.

Unsuitable Extinguishing Media: Do not use a solid water stream as it may scatter and spread fire.

Specific Hazards Arising from the Chemical: In the event of fire and/or explosion do not breathe fumes. May cause sensitization in susceptible persons. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Explosion Data:  
Sensitivity to Mechanical Impact: None.  
Sensitivity to Static Discharge: None.

Protective Equipment and Precautions for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## ACCIDENTAL RELEASE MEASURES

Personal Precautions: Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required. Keep people away from and upwind of spill/leak.

Environmental Precautions: Prevent entry into waterways, sewers, basements or confined areas.

Methods for Containment: Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

Methods for Cleaning Up: Cover liquid spill with sand, earth or other non-combustible absorbent material. Use personal protective equipment as required. Dam up. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly.

## HANDLING AND STORAGE

Precautions for Safe Handling: Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/



mist/vapors/spray. Do not eat, drink or smoke when using this product.

Storage Conditions:

Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers.

Incompatible Materials:

Strong oxidizing agents. Strong acids. Strong bases.

**EXPOSURE CONTROLS/PERSONAL PROTECTION**

Control Parameters:

Exposure Guidelines:

Chemical Name:	ACGIH TLV:	OSHA PEL:	NOISH IDLH:
Quartz 14808-60-7	TWA: 0.025 mg/m <sup>3</sup> respirable particulate matter	TWA: 50 Qg/m <sup>3</sup> TWA: 50 Qg/m <sup>3</sup> excludes construction work, agricultural operations, and exposures that result from the processing of sorptive clays: (250)/(%SiO <sub>2</sub> + 5) mppcf TWA respirable fraction: (10)/(%SiO <sub>2</sub> + 2) mg/m <sup>3</sup> TWA respirable fraction	IDLH: 50 mg/m <sup>3</sup> respirable dust TWA: 0.05 mg/m <sup>3</sup> respirable dust
Wollastonite (Ca(SiO <sub>3</sub> )) 13983-17-0	TWA: 1 mg/m <sup>3</sup> inhalable particulate matter, particulate matter containing no asbestos and <1% crystalline silica	-	-
Diethylenetriamine 111-40-0	TWA: 1 ppm S*	-	TWA: 1 ppm TWA: 4 mg/m <sup>3</sup>
Silica, amorphous, precipitated and gel 112926-00-8	-	TWA: 20 mppcf: (80)/(% SiO <sub>2</sub> ) mg/m <sup>3</sup> TWA	

Legend; S\*: Skin Absorber

NIOSH IDLH:

Immediately Dangerous to Life or Health.

Appropriate Engineering Control:

Engineering Controls:

Showers.

Eyewash stations.

Ventilation systems.

Personal Protective Equipment:

Eye/Face Protection:

Tight sealing safety goggles.

Skin and Body Protection:

Wear protective gloves and protective clothing.

Respiratory Protection:

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations:

Handle in accordance with good industrial hygiene and safety practice.



## PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid.
Appearance:	Viscous paste.
Odor:	Amine.
Odor Threshold:	No Information available.
Color:	Tan.

Property:	Values:	Remarks/Methods:
pH:	No information available.	
Melting Point/Freezing Point:	No information available.	
Boiling Point/Boiling Range:	> 200°C / > 392°F.	
Flash Point:	100°C / > 212°F.	Pensky-Martens Closed Cup (PMCC).
Evaporation Rate:	No information available.	
Flammability (solid, gas):	No information available.	
Flammability Limit in Air:		
Upper Flammability Limit:	No information available.	
Lower Flammability Limit:	No information available.	
Vapor Pressure:	No information available.	
Vapor Density:	No information available.	
Relative Density:	1.62 g/cm <sup>3</sup> .	
Water Solubility:	Slightly soluble.	
Solubility in Other Solvents:	No information available.	
Partition Coefficient:	No information available.	
Autoignition Temperature:	No information available.	
Decomposition Temperature:	No information available.	
Kinematic Viscosity:	No information available.	
Dynamic Viscosity:	No information available.	
Explosive Properties:	Not an explosive.	
Oxidizing Properties:	Not applicable.	
Other Information:		
Softening Point:	No information available.	
Molecular Weight:	No information available.	
VOC Content (%):	0 g/L.	
Density:	No information available.	
Bulk Density:	No information available.	

## STABILITY AND REACTIVITY

Reactivity:	No data available.
Chemical Stability:	Stable under recommended storage conditions.
Possibility of Hazardous Reactions:	Hazardous polymerization does not occur.
Conditions to Avoid:	Elevated Temperature. Incompatible materials.
Incompatible Materials:	Strong oxidizing agents. Strong acids. Strong bases.
Hazardous Decomposition Products:	Thermal decomposition can lead to release of irritating and toxic gases and vapors.

## TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure:	
Inhalation:	May cause irritation.
Eye Contact:	Corrosive to the eyes and may cause severe damage including blindness.



Skin Contact:

Irritating to skin. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

Ingestion:

Can burn mouth, throat, and stomach.

Chemical Name:	Oral LD50:	Dermal LD50:	Inhalation LC50:
2,4,6-Tri(dimethylaminomethyl)phenol 90-72-2	= 1200 mg/kg ( Rat )	= 1280 mg/kg ( Rat )	-
Diethylenetriamine 111-40-0	= 1080 mg/kg ( Rat )	= 672 mg/kg ( Rabbit )	= 70 mg/L ( Rat ) 4 h
1,5-Pentanediamine, 2-methyl-15520-10-2	= 1690 mg/kg ( Rat )		= 2.9 mg/L ( Rat ) 1 h = 4.1 mg/L (Rat ) 1 h

Information on Toxicological Effects:

Symptoms:

May cause an allergic skin reaction. May cause skin irritation. May cause redness and tearing of the eyes. May result in permanent damage including blindness. Coughing and/or wheezing. Delayed and immediate effects as well as chronic effects from short and long-term exposure.

Sensitization:

May cause sensitization in susceptible persons.

Germ Cell Mutagenicity:

Based on available data, the classification criteria are not met.

Carcinogenicity:

This product contains titanium dioxide which is classified as a possible carcinogen when present as respirable dust. This is not relevant for this product since it is a liquid. This product contains crystalline silica (quartz) in a non-respirable form. Inhalation of crystalline silica is unlikely to occur from exposure to this product.

Chemical Name:	ACGIH:	IARC:	NTP:	OSHA:
Quartz 14808-60-7	A2	Group 1	Known	X
Silica, amorphous, precipitated and gel 112926-00-8	-	Group 3	-	-
Titanium dioxide 13463-67-7	-	Group 3	-	-

ACGIH (American Conference of Governmental Industrial Hygienists):

A2:

Suspected Human Carcinogen.

IARC (International Agency for Research on Cancer):

Group 1:

Carcinogenic to Humans.

Group 3:

Not Classifiable as to Carcinogenicity in Humans.

NTP (National Toxicology Program):

Known:

Known Carcinogen.

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X:

Present.

Reproductive Toxicity:

Based on available data, the classification criteria are not met.

STOT:

Single Exposure:

Target Organs. Respiratory system. Eyes. Skin.

Repeated Exposure:

Based on available data, the classification criteria are not





Chronic Toxicity: met.  
 Target Organ Effects: May cause adverse liver effects.  
 Eyes, Respiratory system, Skin, lungs, kidney, liver.  
 Aspiration hazard: Based on available data, the classification criteria are not met.  
 Numerical Measures of Toxicity: Product information.

The following values are calculated based on chapter 3.1 of the GHS document:

ATEmix (oral): 1,876.00 mg/kg.  
 ATEmix (dermal): 6,954.00 mg/kg.  
 ATEmix (inhalation-dust/mist): 2,135.00 mg/l.

## ECOLOGICAL INFORMATION

Ecotoxicity: Harmful to aquatic life with long lasting effects.

Chemical Name:	Algae/aquatic plants:	Fish:	Crustacea:
Diethylenetriamine 111-40-0	345.6: 96 h Pseudokirchneriella subcapitata mg/L EC50 1164: 72 h Pseudokirchneriella subcapitata mg/L EC50 592: 96 h Desmodesmus subspicatus mg/L EC50	248: 96 h Poecilia reticulata mg/L LC50 static 430: 96 h Leuciscus idus mg/L LC50 semi-static 1014: 96 h Poecilia reticulata mg/L LC50 semi-static	16: 48 h Daphnia magna mg/L EC50 37: 24 h Daphnia magna mg/L EC50

Persistence and Degradability: No information available.

Bioaccumulation:

Chemical Name:	Partition Coefficient:
Diethylenetriamine 111-40-0	-1.3

Other Adverse Effects: No information available.

## DISPOSAL CONSIDERATIONS

Waste Treatment Methods:  
 Disposal of Wastes: Disposal should be in accordance with applicable regional, national and local laws and regulations.  
 Contaminated Packaging: Do not reuse container.

Chemical Name:	California Hazardous Waste Status:
Diethylenetriamine 111-40-0	Toxic

## TRANSPORT INFORMATION

DOT: Not regulated.  
 TDG: Not regulated.  
 IATA: Not regulated.  
 IMDG: Not regulated.



## REGULATORY INFORMATION

TSCA:	Complies.
DSL/NDSL:	Complies.
EINECS/ELINCS:	Complies.
IECSC:	Complies.
KECL:	Complies.
PICCS:	Complies.
AICS:	Complies.

### Legend:

TSCA:	United States Toxic Substances Control Act Section 8(b) Inventory.
DSL/NDSL:	Canadian Domestic Substances List/Non-Domestic Substances List.
EINECS/ELINCS:	European Inventory of Existing Chemical Substances/ European List of Notified Chemical Substances.
ENCS:	Japan Existing and New Chemical Substances.
IECSC:	China Inventory of Existing Chemical Substances.
KECL:	Korean Existing and Evaluated Chemical Substances.
PICCS:	Philippines Inventory of Chemicals and Chemical Substances.
AICS:	Australian Inventory of Chemical Substances.

### US Federal Regulations:

SARA 313:	Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.
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### SARA 311/312 Hazard Categories:

Acute Health Hazard:	Yes.
Chronic Health Hazard:	No.
Fire Hazard:	No.
Sudden Release of Pressure Hazard:	No.
Reactive Hazard:	No.

### CWA (Clean Water Act):

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

### CERCLA:

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

### US State Regulations:

#### California Proposition 65:

This product contains crystalline silica (quartz) in a non-respirable form. Inhalation of crystalline silica is unlikely to occur from exposure to this product.



<b>Chemical Name:</b>	<b>California Proposition 65:</b>
Quartz - 14808-60-7	Carcinogen

U.S. State Right-to-Know Regulations:

<b>Chemical Name:</b>	<b>New Jersey:</b>	<b>Massachusetts:</b>	<b>Pennsylvania:</b>
Quartz 14808-60-7	X	X	X
Silica, amorphous, precipitated and gel 112926-00-8	X	X	X
Diethylenetriamine111-40-0	X	X	X

U.S. EPA Label Information:

EPA Pesticide Registration

Number Not applicable.

## OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA:

Health Hazards: 3  
 Flammability: 1  
 Instability: 0  
 Physical and Chemical Properties: -

HMIS:

Health Hazards: 3  
 Flammability: 1  
 Physical Hazards: 0  
 Personal Protection: X

Issue Date:

15-Mar-2016.

Revision Date:

21 June-2024.

Revision Note:

No information available.

Disclaimer:

The information provided in this Material 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. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state, or provincial, and local laws.



## REGULATORY INFORMATION

Federal Regulations:  
Registration Status:  
OSHA Hazard Category:

Chemical TSCA.  
US released / listed.  
Acute target organ effects reported; Corrosive to skin  
and/or eyes; Sensitizer.  
Acute; Chronic.

EPCRA 311/312 (Hazard Categories):

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