

Shep Poxy Hi-Mod Gel Fast



1. Product and Company Identification (Part A)

Company	: Euclid Chemical Company
Address	: 19218 Redwood Road, Cleveland, OH 44110
Telephone	: 216.531.9222
Emergency Phone	: 800.424.9300 (Chemtrec), 1.613.996.6666 (Canada)
Product Code	: TD5323122NC
Recommended Use	: Sealant
Product Identifier	: Dural Fast Set Epoxy Gel Congry 1:1 Pt A, Dural Fast Set Epoxy Gel 1:1 Part A

2. Hazards Identification/Exposure Limits

Hazard classification:

Health Hazards: Serious Eye Damage/Eye Irritation

Serious Eye Damage/Eye Irritation	Category 2B
Skin sensitizer	Category 1
Germ Cell Mutagenicity	Category 1B
Carcinogenicity	Category 1A

Unknown toxicity - health:

Unknown toxiaity onvironment:	
Acute toxicity, inhalation, dust or mist	99.71%
Acute toxicity, inhalation, vapor	100%
Acute toxicity, dermal	11%
Acute toxicity, oral	9.98%

Unknown toxicity - environment:

Acute hazards to the aquatic environment 99.18% Chronic hazards to the aquatic environment 100%

Label elements

Hazard pictograms:



Signal word: Danger

Hazard statements:

Causes eye irritation. May cause genetic defects. May cause an allergic skin reaction. May cause cancer.

Precautionary Statement:

Prevention: Wash thoroughly after handling. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.

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 water. If skin irritation or rash occurs: Get medical advice/attention. If exposed or concerned: Get medical advice/attention. Specific treatment (see product label). Wash contaminated clothing before reuse.

Storage: Store locked up.

Disposal: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Other hazards which do not result in GHS classification: None.





3. Composition/Information On Ingredients

Substances: Not applicable.

Mixture:

Chemical Identity	CAS Number	Content in percent (%)*
Bisphenol A Polyglycidyl Ether Resin	25068-38-6	60 - 100%
Acrylate Ester	15625-89-5	7 - 13%
Crystalline Silica (Quartz)/Silica Sand	14808-60-7	5 - 10%
Titanium Dioxide	13463-67-7	0.5 - 1.5%
Stoddard Solvent (Mineral Spirits)	8052-41-3	0.1 - 1%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First Aid Procedures

Description of first aid measures

After inhalation: Move to fresh air.

After skin contact: If skin irritation occurs: Get medical advice/attention. Destroy or thoroughly clean contaminated shoes. Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. If skin irritation or an allergic skin reaction develops, get medical attention.

After eye contact: Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. If eye irritation persists, get medical advice/attention.

After swallowing: Call a POISON CENTER/doctor/medical professional/if you feel unwell. Rinse mouth.

Information for doctor:

Most important symptoms and effects, both acute and delayed:

Symptoms: May cause skin and eye irritation.

Indication of any immediate medical attention and special treatment needed:

Treatment: Symptoms may be delayed.

5. Firefighting Measures

General fire hazards: No unusual fire or explosion hazards noted.

Extinguishing media:

Suitable extinguishing agents: Use fire-extinguishing media appropriate for surrounding materials. **Unsuitable extinguishing agents:** Do not use water jet as an extinguisher, as this will spread the fire.

Special hazards arising from the chemical: During fire, gases hazardous to health may be formed.

Advice for firefighters:

Special procedures: No data available.

Protective equipment: Self-contained breathing apparatus (SCBA) and full protective clothing must be worn in case of fire.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

Methods and material for containment and cleaning up: Dam and absorb spillages with sand, earth or other noncombustible material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

Notification procedures: In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

Environmental precautions: Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.





7. Handling and Storage

Precautions for safe handling: Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Avoid contact with eyes. Wash hands thoroughly after handling. Avoid contact with eyes, skin, and clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities: Store locked up.

8. Exposure Controls/Personal Protection

Control Parameters

Occupational exposure limits			
Chemical Identity	Туре	Exposure Limit Values	Source
Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction.	TWA	0.025 mg/m³	U.S. ACGIH Threshold Limit Values (2011)
Crystalline Silica (Quartz)/ Silica Sand - Respirable	TWA	2.4 millions of particles per cubic foot of air	U.S. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
	TWA	0.1 mg/m³	U.S. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
Crystalline Silica (Quartz)/ Silica Sand - Total dust.	TWA	0.3 mg/m³	U.S. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
Titanium dioxide	TWA	10 mg/m ³	U.S. ACGIH Threshold Limit Values (2011)
Titanium dioxide - Total dust.	PEL	15 mg/m³	U.S. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Stoddard solvent (Mineral Spirits)	TWA	100 ppm	U.S. ACGIH Threshold Limit Values (2011)
	PEL	500 ppm 2,900 mg/m³	U.S. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction.	TWA	0.025 mg/m³	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Crystalline Silica (Quartz)/ Silica Sand - Respirable.	TWAEV	0.10 mg/m ³	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Crystalline Silica (Quartz)/ Silica Sand - Respirable dust.	TWA	0.1 mg/m³	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Titanium dioxide - Total dust.	TWA	10 mg/m³	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Titanium dioxide - Respirable fraction.	TWA	3 mg/m³	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Titanium dioxide	TWAEV	10 mg/m³	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Titanium dioxide - Total dust.	TWA	10 mg/m³	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)





8. Exposure Controls/Personal Protection (cont.)

Appropriate engineering controls: Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Mechanical ventilation or local exhaust ventilation may be required.

Individual protection measures, such as personal protective equipment:

General information: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory and eye protection may be needed in special circumstances, such as poorly ventilated spaces, heating, evaporation of liquids from large surfaces, spraying of mists, mechanical generation of dusts, drying of solids, etc.

Eye/face protection: Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection: Use suitable protective gloves if risk of skin contact.

Other: Wear suitable protective clothing. Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.

Respiratory protection: In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.

Hygiene measures: Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace. Avoid contact with skin.

9. Physical and Chemical Properties

Information on basic physical and chemical properties:

Appearance: Physical state: Form:	Liquid. Liquid.	Explosion limits: Lower: Upper:	No data available. No data available.
Color:	Gray.	Vapor pressure:	No data available.
Odor:	Mild.	Relative density:	1.13
Odor threshold:	No data available.	Vapor density:	Vapors are heavier than
pH-value:	No data available.		air and may travel along
Change in condition Melting point/Melting range:	No data available.		the floor and in the bottom of containers.
Boiling point/Boiling range:	No data available.	Evaporation rate:	Slower than ether.
Flash point:	> 93°C > (200°F) (Setaflash Closed Cup)	Solubility in/miscibility with water:	Insoluble in water.
Flammability (solid, gaseous):	No.		
Decomposition temperature:	No data available.	Partition coefficient (n-octanol/water):	No data available.
Auto ignition temperature:	No data available.	Viscosity:	No data available.

10. Stability/Reactivity

Reactivity: No data available.

Chemical stability: Material is stable under normal conditions.

Possibility of hazardous reactions: No data available.

Conditions to avoid: Avoid heat or contamination.

Incompatible materials: No data available.

Hazardous decomposition products: Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.





in vivo (Rabbit, 24hrs):

11. Toxicological Information

Information on likely routes of exposure:

Ingestion: May be ingested by accident. Ingestion may cause irritation and malaise. **Inhalation:** In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes. **Skin Contact:** May be harmful in contact with skin. Causes mild skin irritation. May cause an allergic skin reaction.

Eye Contact: Causes eye irritation.

Information on toxicological effects: Acute toxicity (list all possible routes of exposure): Oral: Specified substance(s): Product: No data available.

Polyglycidyl Ether Resin Slightly irritating. Dermal: **Product:** ATEmix: 3,227.79 mg/kg Acrylate Ester in vivo (Rabbit, 24hrs): Moderately irritating. Inhalation: No data available. Titanium dioxide in vivo (Rabbit, 24-72 hrs): **Product:** Not irritating. Repeated dose toxicity Stoddard solvent Irritating **Product:** No data available. (Mineral spirits) Irritating. Skin corrosion/irritation **Respiratory or skin sensitization:** Product: No data available. **Product:** No data available. Serious eye damage/irritation Carcinogenicity Product: No data available. No data available. **Product:** IARC monographs on the evaluation of carcinogenic risks to humans:

Crystalline silica (quartz)/	Overall evaluation:
Silica sand	Carcinogenic to humans.
Titanium dioxide	Overall evaluation: Possibly carcinogenic to humans.

U.S. National Toxicology Program (NTP) report on carcinogens:

Crystalline silica (Quartz)/ Known to be human carcinogen. Silica sand

U.S. OSHA specifically regulated substances (29 CFR 1910.1001-1050): No carcinogenic components identified.

Germ cell mutagenicity: In vitro Product:	No data available.
In vivo: Product:	No data available.
Reproductive toxicity: Product:	No data available.
Aspiration hazard Product:	No data available.
Other effects:	No data available.
Specific target organ toxicit Product:	t y - single exposure: No data available.

Specific target organ toxicity - repeated exposure Product: No data available.





12. Ecological Information Ecotoxicity: Acute hazards to the aque Fish: Product: No data avail			
Specified substance(s): Titanium dioxide	LC 50 (Mummichog (Fundu	ılus heteroclitus), 96 h): > 1,00	0 mg/l mortality
Aquatic invertebrates: Product: No data availabl	e.		
Specified substance(s): Titanium dioxide	EC 50 (Water flea (Daphnia	magna), 48 h): > 1,000 mg/l i	ntoxication
Chronic hazards to the aqua Fish: Product: No data availabl			
Specified substance(s): Titanium dioxide	LC 0 (Coregonus autumnal	is migratorius G., 30 d): 3 mg/	l experimental result
Aquatic invertebrates: Product: No data availabl	e.		
Toxicity to aquatic plants: Product: No data availabl	e.		
Persistence and Degradabi Biodegradation Product:	l ity: No data available.	Partition coefficient n-octa Product: Specified substance(s):	nol / water (log Kow) No data available.
BOD/COD Ratio: Product:	No data available.	Stoddard solvent (Mineral Spirits)	Log Kow: 3.16 - 7.15
Bioaccumulative Potential Bioconcentration factor (B Product:	CF) No data available.	Mobility in soil: Other adverse effects:	No data available. No data available.

13. Waste Disposal Information

Disposal instructions: Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Contaminated packaging: No data available.

14. Transportation Information

TDG: Not Regulated. **CFR / DOT:** Not Regulated. **IMDG:** Not Regulated.

15. Regulatory Information

U.S. Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D): None present or none present in regulated quantities.

U.S. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): None present or none present in regulated guantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity	Reportable Quantity
Methanol	5,000 lbs.
Hydroquinone (HQ)	100 lbs.
Butyl acetate	5,000 lbs.







Regulatory Information (Superfund Amendments and Hazard categories Immediate (acute) health I Delayed (chronic) health h	Reauthorization Act of 19	986 (SARA)
SARA 302 Extremely Hazard Chemical Identity Hydroquinone (HQ)	ous Substance: Reportable Quantity 100 lbs	Threshold Planning Quantity
SARA 304 emergency releas Chemical Identity Methanol Copper phthalocyanine Hydroquinone (HQ) Butyl acetate	e notification: Reportable Quantity 5,000 lbs. 100 lbs. 5,000 lbs.	
SARA 311/312 Hazardous Cl Chemical Identity Hydroquinone (HQ) Bisphenol A Polyglycidyl Etl Acrylate Ester 500 lbs. Crystalline Silica (Quartz)/S Titanium dioxide Stoddard solvent (Mineral S	ner Resin Silica Sand	Threshold Planning Quantity 500 lbs. 500 lbs. 500 lbs. 500 lbs. 500 lbs. 500 lbs.
None present or none present Clean Water Act Section 311 None present or none prese Clean Air Act (CAA) Section None present or none prese U.S. State Regulations:	Hazardous Substances (4 ent in regulated quantities. 112(r) Accidental Release	Prevention (40 CFR 68.130):
U.S. California Proposition	nical(s) known to the state	e of California to cause cancer and/or to cause birth defects
U.S. New Jersey Worker and Right-to-Know Act: Chemical Identity Crystalline silica (Quartz)/ Si	-	U.S. Rhode Island RTK Chemical Identity No ingredient regulated by RI Right-to-Know Law present.
U.S. Massachusetts RTK - Substance List Chemical Identity Crystalline Silica (Quartz)/ Silica Sand Hydroguinone (HQ)		Other Regulations: When appropriately mixed with the other part, product has a VOC less water and exempt solvent of: 0 g/l
U.S. Pennsylvania RTK - Haz Chemical Identity Crystalline Silica (Quartz)/ S		
Inventory Status: Australia AICS: Canada DSL Inventory List: EINECS, ELINCS or NLP:	inventory. All components in this	nts in this product are not listed on or exempt from the product are listed on or exempt from the inventory. nts in this product are not listed on or exempt from the





15. Regulatory Information (cont.)

Japan (ENCS) List:	One or more components in this product are not listed on or exempt from the inventory.
China Inv. Existing Chemical	
Substances:	One or more components in this product are not listed on or exempt from the inventory.
Korea Existing Chemicals	
Inv. (KECI):	One or more components in this product are not listed on or exempt from the inventory.
Canada NDSL Inventory:	One or more components in this product are not listed on or exempt from the inventory.
Philippines PICCS:	One or more components in this product are not listed on or exempt from the inventory.
U.S. TSCA Inventory:	One or more components in this product are not listed on or exempt from the inventory.
New Zealand Inventory	
of Chemicals:	One or more components in this product are not listed on or exempt from the inventory.
Japan ISHL Listing:	One or more components in this product are not listed on or exempt from the inventory.
Japan Pharmacopoeia Listing:	One or more components in this product are not listed on or exempt from the inventory.

16. Other Information

Further Information: No data available.

Disclaimer: For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.





1. Product and Company Identification (Part B)

Company	: Euclid Chemical Company
Address	: 19218 Redwood Road, Cleveland, OH 44110
Telephone	: 216.531.9222
Emergency Phone	: 800.424.9300 (Chemtrec), 1.613.996.6666 (Canada)
Product Code	: TD5323122NC
Recommended Use	: Curative
Product Identifier	: DURAL FAST SET EPOXY GEL 1:1 PART B

2. Hazards Identification/Exposure Limits

Hazard classification:

Health Hazards:

Acute toxicity (Oral)	Category 4	Acute toxicity, dermal	51.9%
Skin corrosion/irritation	Category 1A	Acute toxicity, inhalation, vapor	100%
Serious eye damage/eye irritation	Category 1	Acute toxicity, inhalation, dust or mist	98.2%
Skin sensitizer	Category 1		
Germ cell mutagenicity	Category 1B	Environmental Hazards:	
Carcinogenicity	Category 1A	Acute hazards to the aquatic environment	• •
Toxic to reproduction	Category 2	Acute hazards to the aquatic environment	64.11%
Acute toxicity, oral	27.22%		

Label elements

Hazard pictograms:



Signal word: Danger

Hazard statements:

Harmful if swallowed. May cause an allergic skin reaction. May cause cancer. Toxic to aquatic life. Causes severe skin burns and eye damage. May cause genetic defects. Suspected of damaging fertility or the unborn child.

Precautionary Statement:

Prevention: Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe dust or mists. Wear protective gloves/protective clothing/eye protection/face protection. Contaminated work clothing must not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required..

Response: IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention. IF SWALLOWED: Call a POISON CENTER/doctor/medical professional if you feel unwell. Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. Specific treatment (see product label). Wash contaminated clothing before reuse.

Storage: Store locked up.

Disposal: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Other hazards which do not result in GHS classification: None.





3. Composition/Information On Ingredients

Substances: Not applicable.

Mixture:

Chemical Identity	CAS Number	Content in percent (%)*
1,3-Cyclohexanedimethanamine	2579-20-6	15 - 40%
4-Nonylphenol	84852-15-3	15 - 40%
Bisphenol A	80-05-7	15 - 40%
Crystalline Silica (Quartz)/Silica Sand	14808-60-7	15 - 40%
Tris(dimethylaminomethyl)phenol	90-72-2	1 - 5%
Benzyl alcohol	100-51-6	1 - 5%
1,2-Cyclohexanediamine	694-83-7	1 - 5%
Stoddard solvent (Mineral Spirits)	8052-41-3	0.1 - 1%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First Aid Procedures

Description of first aid measures

After inhalation: Call a physician or poison control center immediately. If breathing stops, provide artificial respiration. Move to fresh air. If breathing is difficult, give oxygen.

After skin contact: Call a physician or poison control center immediately. Destroy or thoroughly clean contaminated shoes. Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. If skin irritation or an allergic skin reaction develops, get medical attention.

After eye contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Call a physician or poison control center immediately.

After swallowing: Rinse mouth. Call a physician or poison control center immediately. Never give liquid to an unconscious person. Do not induce vomiting without advice from poison control center.

Information for doctor:

Most important symptoms and effects, both acute and delayed:

Symptoms: Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/chapping. Extreme irritation of eyes and mucous membranes, including burning and tearing.

Indication of any immediate medical attention and special treatment needed:

Treatment: Symptoms may be delayed.

5. Firefighting Measures

General fire hazards: No unusual fire or explosion hazards noted.

Extinguishing media:

Suitable extinguishing agents: Use fire-extinguishing media appropriate for surrounding materials. **Unsuitable extinguishing agents:** Do not use water jet as an extinguisher, as this will spread the fire.

Special hazards arising from the chemical: During fire, gases hazardous to health may be formed.

Advice for firefighters:

Special procedures: No data available.

Protective equipment: Self-contained breathing apparatus (SCBA) and full protective clothing must be worn in case of fire.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

Methods and material for containment and cleaning up: Dam and absorb spillages with sand, earth or other non-





6. Accidental Release Measures

combustible material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

Notification procedures: In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

Environmental precautions: Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.

7. Handling and Storage

Precautions for safe handling: Do not taste or swallow. Wash hands thoroughly after handling. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Do not get in eyes. Do not get in eyes, on skin, on clothing. Avoid contact with eyes, skin, and clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities: Store locked up.

8. Exposure Controls/Personal Protection

Control Parameters

Occupational exposure limits			
Chemical Identity	Туре	Exposure Limit Values	Source
Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction.	TWA	0.025 mg/m³	U.S. ACGIH Threshold Limit Values (2011)
Crystalline Silica (Quartz)/ Silica Sand - Respirable	TWA	2.4 millions of particles per cubic foot of air	U.S. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
	TWA	0.1 mg/m³	U.S. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
Crystalline Silica (Quartz)/ Silica Sand - Total dust.	TWA	0.3 mg/m³	U.S. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
Stoddard solvent (Mineral Spirits)	TWA	100 ppm	U.S. ACGIH Threshold Limit Values (2011)
	PEL	500 ppm 2,900 mg/m³	U.S. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Crystalline Silica (Quartz)/ Silica sand - respirable fraction.	TWA	0.025 mg/m³	Canada. British Columbia OELs. (Occupational Expo- sure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Crystalline Silica (Quartz)/ Silica sand - respirable.	TWAEV	0.10 mg/m ³	Canada. Ontario OELs. (Control of Exposure to Biologi- cal or Chemical Agents) (11 2010)
Crystalline Silica (Quartz)/ Silica sand - respirable dust.	TWA	0.1 mg/m³	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)

Appropriate engineering controls: Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Mechanical ventilation or local exhaust ventilation may be required.





8. Exposure Controls/Personal Protection (cont.)

Individual protection measures, such as personal protective equipment:

General information: Provide easy access to water supply and eye wash facilities. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Eye/face protection: Wear a full-face respirator, if needed. Wear safety glasses with side shields (or goggles) and a face shield.

Skin protection

Hand protection: Use suitable protective gloves if risk of skin contact.

Other: Wear suitable protective clothing. Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.

Respiratory protection: In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.

Hygiene measures: Observe good industrial hygiene practices. Do not eat, drink or smoke when using the product. Wash hands after handling. Wash hands before breaks and immediately after handling the product. Do not get in eyes. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Wash contaminated clothing before reuse. Do not get this material in contact with skin. Contaminated work clothing should not be allowed out of the workplace. Avoid contact with skin.

9. Physical and Chemical Properties

Information on basic physical and chemical properties:

Appearance: Physical state: Form:	Liquid. Liquid.	Explosion limits: Lower: Upper:	No data available. No data available.
Color:	Gray.	Vapor pressure:	No data available.
Odor:	Mild pungent.	Relative density:	1.20
Odor threshold:	No data available.	Vapor density:	Vapors are heavier than
pH-value:	No data available.		air and may travel along
Change in condition Melting point/Melting range:	No data available. No data available.		the floor and in the bottom of containers.
Boiling point/Boiling range:		Evaporation rate:	Slower than ether.
Flash point:	> 93°C > (200°F) (Setaflash Closed Cup)	Solubility in/miscibility with water:	Practically Insoluble.
Flammability (solid, gaseous):	No.		
Decomposition temperature:	No data available.	Partition coefficient (n-octanol/water):	No data available.
Auto ignition temperature:	No data available.	Viscosity:	No data available.

10. Stability/Reactivity

Reactivity: No data available.

Chemical stability: Material is stable under normal conditions.

Possibility of hazardous reactions: No data available.

Conditions to avoid: Avoid heat or contamination.

Incompatible materials: No data available.

Hazardous decomposition products: Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.





11. Toxicological Information

Information on likely routes of exposure:

Ingestion: Harmful if swallowed.

Information on toxicological effects:

Inhalation: In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes. **Skin Contact:** May be harmful in contact with skin. Causes severe skin burns. May cause an allergic skin reaction.

Eye Contact: Causes serious eye damage.

Acute toxicity (list all p	ossible routes of exposure):		
	ATEmix: 1,417.21 mg/kg	Specified substance(s): 4-Nonylphenol	in vivo (Rabbit, 24 - 72 hrs): Corrosive
Dermal: Product:	ATEmix: 2,291.07 mg/kg	Bisphenol A	in vivo (Rabbit, 24 hrs): Not classified as an Irritant
Inhalation: Product:	No data available.	Tris(dimethylaminomethyl) phenol	in vivo (Rabbit, 3 d): Corrosive
Repeated dose toxicity Product:	No data available.	Benzyl alcohol	in vivo (Rabbit, 1 - 72 hrs):
Skin corrosion/irritation Product:	No data available.	Stoddard solvent Irritating	Irritating
Serious eye damage/irrit	ation	(Mineral spirits)	Irritating.
Product:	No data available.	Carcinogenicity Product:	No data available.
Respiratory or skin sensi Product:	No data available.		
IARC monographs on the Crystalline silica (quart: Silica sand	e evaluation of carcinogenic ri z)/ Overall evaluation: Carcinogenic to humar		
U.S. National Toxicology Crystalline silica (Quart Silica sand	Program (NTP) report on card z)/ Known to be human ca		
U.S. OSHA specifically re No carcinogenic compo	egulated substances (29 CFR ponents identified.	1910.1001-1050):	
Germ cell mutagenicity:			
In vitro Product:	No data available.		
In vivo: Product:	No data available.		
Reproductive toxicity: Product:	Suspected of damaging fe	rtility or the unborn child.	
Aspiration hazard Product:	No data available.		
Other effects:	No data available.		
Specific target organ tox Product:	icity - single exposure: No data available.		
Specific target organ tox Product:	icity - repeated exposure No data available.		





12. Ecological Information

Ecotoxicity:

Acute hazards to the aquatic environment: Fish:

Product: No data available.

Specified substance(s): 4-Nonylphenol LC 50 (Fathead minnow (Pimephales promelas), 96 h): 0.13825 mg/l Mortality Bisphenol A LC 50 (Fathead minnow (Pimephales promelas), 96 h): 4 - 5.5 mg/l Mortality Benzyl alcohol LC 50 (Fathead minnow (Pimephales promelas), 96 h): 4 - 5.5 mg/l Mortality Aquatic invertebrates: LC 50 (Fathead minnow (Pimephales promelas), 96 h): 460 mg/l Mortality

Product: No data available.

Specified substance(s):

LC 50 (Amphipod (Leptocheirus plumulosus), 144 h): +/- 0.05 mg/l Mortality
EC 50 (Clam (Mulinia lateralis), 24 h): +/- 0.05 mg/l Mortality
LC 50 (Marsh grass shrimp (Palaemonetes vulgaris), 72 h): > 0.05 - 0.1 mg/l Mortality
LC 50 (Amphipod (Leptocheirus plumulosus), 72 h): > 0.05 - 0.1 mg/l Mortality
LC 50 (American lobster (Homarus americanus), 48 h): > 0.1 - 0.15 mg/l Mortality
LC 50 (Hydra (Hydra vulgaris), 24 h): 10.9 - 14 mg/l Mortality

Chronic hazards to the aquatic environment:

Fish:

Product: No data available.

Specified substance(s):

4-Nonylphenol	LOAEL (Lepomis macrochirus, 28 d):
	0.126 mg/l experimental result
Bisphenol A	NOAEL (Oncorhynchus mykiss, 28 d):
	3.64 mg/l experimental result

Aquatic invertebrates:

Product: No data available.

Toxicity to aquatic plants: Product: No data available.

Persistence and Degradab Biodegradation Product:	ility: No data available.	Specified substance(s): 4-Nonylphenol	Fathead minnow (Pimephales promelas),
BOD/COD Ratio: Product:	No data available.		Bioconcentration Factor (BCF): 498 (Flow through)
Bioaccumulative Potential Bioconcentration factor (I Product:	BCF) No data available.	Bisphenol A	Rainbow trout,donaldson trout (Oncorhynchus mykiss), Bioconcentration Factor (BCF): 10.8 (Flow
Partition coefficient n-octanol / water (log Kow)			through)
Product:	No data available.	Mobility in soil:	No data available.
Specified substance(s): Stoddard solvent		Other adverse effects:	Toxic to aquatic organisms.
(Mineral Spirits)	Log Kow: 3.16 - 7.15		

13. Waste Disposal Information

Disposal instructions: Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Contaminated packaging: No data available.





14. Transportation Information

TDG: Not Regulated.

CFR / DOT: Not Regulated.

IMDG: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Nonylphenol), 9, PG III, MARINE POLLUTANT.

Further information: The above shipping description may not be accurate for all container sizes and all modes of transportation. Please refer to Bill of Lading.

15. Regulatory Information

U.S. Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D):

4-Nonylphenol
 ** De minimis concentration: 1.0% One-Time Export Notification only.
 De minimis concentration: 1.0% One-Time Export Notification only.

U.S. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4): Chemical Identity Reportable Quantity

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate (Acute) Health Hazards Delayed (Chronic) Health Hazard

SARA 302 Extremely Hazardous Substance:

None present or none present in regulated quantities.

SARA 304 Emergency Release Notification:

Chemical Identity Reportable Quantity Bisphenol A

SARA 311/312 Hazardous Chemical:

Chemical Identity	Threshold Planning Quantity
1,3-Cyclohexanedimethanamine	500 lbs.
4-Nonylphenol	500 lbs.
Bisphenol A	500 lbs.
Crystalline Silica (Quartz)/Silica sand	500 lbs.
Tris(dimethylaminomethyl) phenol	500 lbs.
Benzyl alcohol	500 lbs.
1,2-Cyclohexanediamine	500 lbs.
Stoddard solvent (Mineral Spirits)	500 lbs.

SARA 313 (TRI Reporting):

Bisphenol A

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3):

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

U.S. State Regulations:

U.S. California Proposition 65:

This product contains chemical(s) known to the state of California to cause cancer and/or to cause birth defects or other reproductive harm.





15. Regulatory Information (cont.)

U.S. New Jersey Worker and Community Right-to-Know Act: Chemical Identity Bisphenol A Crystalline Silica (Quartz)/ Silica sand

U.S. Massachusetts RTK - Substance List Chemical Identity 4-Nonylphenol Bisphenol A Crystalline Silica (Quartz)/ Silica sand Benzyl alcohol

U.S. Pennsylvania RTK - Hazardous Substances Chemical Identity 4-Nonylphenol Bisphenol A Crystalline Silica (Quartz)/ Silica sand Benzyl alcohol

U.S. Rhode Island RTK Chemical Identity Bisphenol A

Other Regulations: When appropriately mixed with the other part, product has a VOC less water and exempt solvent of: 0 g/l

Inventory Status:

inventory Status.	
Australia AICS:	One or more components in this product are not listed on or exempt from the inventory.
Canada DSL Inventory List:	All components in this product are listed on or exempt from the inventory.
Japan (ENCS) List:	One or more components in this product are not listed on or exempt from the inventory.
EINECS, ELINCS or NLP:	One or more components in this product are not listed on or exempt from the Inventory.
China Inv. Existing Chemical	
Substances:	One or more components in this product are not listed on or exempt from the inventory.
Korea Existing Chemicals	
Inv. (KECI):	One or more components in this product are not listed on or exempt from the inventory.
Canada NDSL Inventory:	One or more components in this product are not listed on or exempt from the inventory.
Philippines PICCS:	One or more components in this product are not listed on or exempt from the inventory.
U.S. TSCA Inventory:	One or more components in this product are not listed on or exempt from the inventory.
New Zealand Inventory	
of Chemicals:	One or more components in this product are not listed on or exempt from the inventory.
Japan ISHL Listing:	One or more components in this product are not listed on or exempt from the inventory.
Japan Pharmacopoeia Listing:	One or more components in this product are not listed on or exempt from the inventory.

16. Other Information

Further Information: No data available.

Disclaimer: For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.