Issue date 09/16/2024 Version 1 Revised on 09/16/2024

1. Identification

Product Identifier

Product Name 1340 High Strength Panel Bond Adhesive - **Resin**

Other means of identification

SDS # 1340 High Strength Panel Bond Adhesive - **Resin**

Recommended use of the chemical and restrictions on use

Recommended Use Structural adhesive hardener (use with base).

Details of the supplier of the safety data sheet

Supplier Address

Seymour of Sycamore
917 Crosby Avenue
Sycamore, IL 60178 USA

Seymour of Sycamore
3041 Dougall Avenue, Suite 503
Windsor, ONT N9E 1S3 CANADA

Emergency Telephone Number

Company Phone Number 815-895-9101 | 800-435-4482 (Canada)
Emergency Telephone (24 hr) 1-800-255-3924

2. Hazards Identification

Appearance Black viscous liquid **Physical State** Liquid

Classification

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1
Germ cell mutagenicity	Category 1B
Carcinogenicity	Category 2

Signal Word

Danger

Hazard Statements

Harmful if inhaled
Causes skin irritation
Causes serious eye irritation
May cause an allergic skin reaction
May cause genetic defects
Suspected of damaging fertility or the unborn child

Precautionary Statements - Prevention

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Wash face, hands and any exposed skin thoroughly after handling Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace
Do not breathe dust/fume/gas/mist/vapors/spray

(Contd. on page 2)

Precautionary Statements - Response

If exposed or concerned: Get medical advice/attention
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 it before reuse
IN CASE OF FIRE: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store locked up
Store in a well-ventilated place. Keep cool.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other Hazards

Toxic to aquatic life with long lasting effects

Unknown Acute Toxicity

44% of the mixture consists of ingredients) of unknown toxicity

3. Composition/Information On Ingredients

Chemical Name	CAS No	Weight-%
Bisphenol A - Epichlorohydrin polymer	25068-38-6	30-60
1,4-bis((2,3-epoxypropoxy)methyl)cyclohexane	14228-73-0	7-13
Fused Silica	60676-86-0	1-10
Synthetic Amorphous Silica	67762-90-7	1-10
Glass Beads	65997-17-3	1-5
(3-Glycidyloxypropy/)trimethoxysilane	2530-83-8	0.5-1.5
Stoddard solvent	8052-41-3	<0.3
Carbon Black	1333-86-4	<0.6
Alkyl Phenol Blocked Polyisocyanate	Proprietary	5-20

If Chemical Name/CAS No is “proprietary” and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-Aid Measures

First Aid Measures

General Advice

If exposed or concerned: Get medical advice/attention.

Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists: Get medical advice/attention.

Skin Contact

Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing. Wash contaminated clothing before reuse. Get medical attention.

Inhalation

Remove to fresh air. Get medical attention if symptoms occur..

Ingestion

Rinse mouth. Do not induce vomiting. Give two glasses of water. Never give anything by mouth to an unconscious person. Get medical attention immediately. Seek medical attention.

(Contd. on page 3)

Most important symptoms and effects

Symptoms Symptoms of inhalation may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. Symptoms of eye contact may include redness, swelling, pain, tearing, and blurred or hazy vision. May cause blisters and sores. Abdominal pain, stomach upset, nausea, vomiting and diarrhea.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. Fire-Fighting Measures

Suitable Extinguishing Media Use fire extinguishers with class B extinguishing agents. Dry chemical. Carbon dioxide (CO2).

Unsuitable Extinguishing Media Water spray may be ineffective.

Specific Hazards Arising from the Chemical No specific fire or explosion hazard.

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. Use water spray to keep fire-exposed containers cool.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions Use personal protective equipment as required.

Environmental Precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

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

Methods for Clean-Up Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Collect as much of the spilled material as possible. Clean up residue with water. Spills and releases may have to be reported to Federal and/or local authorities. See section 15.

7. Handling And Storage

Precautions for safe handling

Advice on Safe Handling Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protection recommended in Section 8. Wash thoroughly after handling. Avoid breathing vapors or mists. Contaminated work clothing should not be allowed out of the workplace. Carefully vent any internal pressure before removing closure. Avoid contact with skin and eyes. Avoid breathing dust created by cutting, sanding, grinding, or machining. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children. Keep away from heat.

Incompatible Materials None known based on information supplied.

(Contd. on page 4)

8. Exposure Controls/Personal Protection

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Fused Silica 60676-86-0	TWA: 0.005 ppm	(vacated) TWA: 0.1 mg/m^3 respirable dust (80)(% SiO2) mg/m^3 TWA TWA: 20 mppcf	
Glass Beads 65997-17-3	TWA: 1 fiber/cm3 respirable fibers: length >5 um, aspect ratio membrane filter method at 400-450X magnification [4-mm objective], using phase-contrast illumination TWA: 5 mg/m^3 inhalable fraction		
Carbon Black 1333-86-4	TWA: 3 mg/m^3 inhalable fraction	TWA: 3.5 mg/m^3 (vacated) TWA: 3.5 mg/m^3	IDLH: 1750 mg/m^3 TWA: 3.5 mg/m^3 wence of Poicycic aromatin hydrocarbons PAH
Stoddard solvent 8052-41-3	TWA: 100 ppm	TWA: 500 ppm TWA: 2900 mg/m^3 (vacated) TWA: 100 ppm (vacated) TWA: 525 mg/m^3	IDLH: 20000 mg/m^3 Ceiling: 1800 mg/m^3 15 min TWA: 350 mg/m^3

Appropriate engineering controls

Engineering Controls Use a local exhaust or general dilution ventilation system.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Safety glasses with side-shields. Indirect vented goggles.

Skin and Body Protection Consult the glove manufacturer for the most appropriate glove material. Use body protection appropriate for task. Nitrile or Neoprene gloves may afford adequate skin protection.

Respiratory Protection Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: Half face-piece or full-face air-purifying respirator with P95 particulate filters.

General Hygiene Considerations Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

(Contd. on page 5)

9. Physical And Chemical Properties

Information on basic physical and chemical properties

Physical State : Liquid

Appearance: Black viscous liquid

Color: Black

Odor: Not determined

Odor Threshold: Not determined

Property	Values	Remarks • Method
pH	Not applicable	
Melting Point/Freezing Point	Not applicable	
Boiling Point/Boiling Range	= 35 °C/ 95 °F	
Flash Point	104 °C/ 219 °F	CC (closed cup)
Evaporation Rate	< 1	(butyl acetate = 1)
Flammability (Solid, Gas)	n/a-liquid	
Upper Flammability Limits	No data available	
Lower Flammability Limit	No data available	
Vapor Pressure	45 mm Hg	
Vapor Density	No data available	
Specific Gravity	- 1.19	(1=Water)
Water Solubility	Negligible	
Solubility in other solvents	Not determined	
Partition Coefficient	No data available	
Auto-ignition Temperature	No data available	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	
Dynamic Viscosity	>400 centistokes	
Explosive Properties	Not determined	
Oxidizing Properties	Not determined	
VOC Content	No data available	
Density	9.9 lb/gal	

10. Stability And Reactivity

Reactivity Not reactive under normal conditions.

Chemical Stability Stable under recommended storage conditions.

Possibility of Hazardous Reactions None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

Conditions to Avoid Heat, flames and sparks.

Incompatible Materials None known based on information supplied.

Hazardous Decomposition Products Carbon oxides. Aldehydes.

(Contd. on page 6)

11. Toxicological Information

Information on likely routes of exposure

Product Information

Eye Contact Causes serious eye irritation.

Skin Contact May cause an allergic skin reaction. Causes skin irritation..

Inhalation Avoid breathing vapors or mists.

Ingestion Do not taste or swallow.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Bisphenol A - Epichlorohydrin polymer 25068-38-6	= 11400 mg/kg (Rat)	20000 mg/kg (rabbit)	
13-Gyeiyoxypropyjinethoxyilan 2530-83-8	= 22600 ML/kg (Rat)	= 3970 L/kg (Rabbit)	
2,2,4-Trimethyl-1,3-pentanediol diisobutyrate 6846-50-0	> 3200 mg/kg (Rat)		
Carbon Black 1333-86-4	> 15400 mg/kg (Rat)	> 3g/kg (Rabbit)	

Information on physical, chemical and toxicological effects

Symptoms Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization May cause an allergic skin reaction.

Germ cell mutagenicity May cause genetic defects.

Carcinogenicity Suspected of causing cancer.

Chemical Name	ACGIH	IARC	NTP	OSHA
Fused Silica 60676-86-0		Group 3		
Glass Beads 65997-17-3		Group 3		
Carbon Black 1333-86-4	A3	Group 2B		X

ACGIH (American Conference of Governmental Industrial Hygienists)
A3 - Animal Carcinogen
IARC (International Agency for Research on Cancer)
Group 2B - Possibly Carcinogenic to Humans
Group 3 IARC components are “not classifiable as human carcinogens”
OSHA (Occupational Safety and Health Administration of the US Department of Labor)
X - Present

Numerical measures of toxicity

Not determined

Unknown Acute Toxicity 44% of the mixture consists of ingredients) of unknown toxicity.

(Contd. on page 7)

12. Ecological Information

Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Carbon Black 1333-86-4				5600: 24 h Daphnia magna mg/L EC50

Persistence/Degradability Not determined.

Bioaccumulation Not determined.

Mobility Not determined.

Other Adverse Effects Not determined.

13. Disposal Considerations

Waste Treatment Methods

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. Transport Information

Note Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT Not regulated

IATA Not regulated

IMDG
Marine Pollutant This material may meet the definition of a marine pollutant

15. Regulatory Information

International Inventories

TSCA Listed
DSL Listed
EINECS Listed
AICS Listed

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

(Contd. on page 8)

15. Regulatory Information

US Federal Regulations

SARA 311/312 Hazard Categories

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

SARA 313 Not determined

US State Regulations

U.S. State Right-to-Know Regulations

California Proposition 65 This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
Carbon Black - 1333-86-4	Carcinogen

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Diphenylmethane, Diissocynate, isomers, and homologues - 9016-87-9	9016-87-9	50-60	1.0
4,4'Diphenylmethane Diisocyanate (MDI) - 101-68-8	101-68-8	30-35	1.0
Methylenediphenyl diisocyanate - 26447-40-5	26447-40-5	1-10	1.0

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Fused Silica - 60676-86-0	X	X	
Carbon Black - 1333-86-4	X	X	X
Stoddard solvent - 8052-41-3	X	X	X

16. Other Information

NFPA	**Health Hazards** 3	**Flammability** 1	**Instability** 0	**Special Hazards** None
HMIS	**Health Hazards** Not determined	**Flammability** Not determined	**Physical Hazards** Not determined	**Personal Protection** Not determined

Issue Date: 09/16/2024

Disclaimer

The information provided in this 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.

(Contd. on page 9)

1. Identification

Product Identifier
Product Name 1340 High Strength Panel Bond Adhesive - **Hardener**

Other means of identification
SDS # 1340 High Strength Panel Bond Adhesive - **Hardener**

Recommended use of the chemical and restrictions on use
Recommended Use Structural adhesive hardener (use with base).

Details of the supplier of the safety data sheet
Supplier Address

Seymour of Sycamore
917 Crosby Avenue
Sycamore, IL 60178 USA

Seymour of Sycamore
3041 Dougall Avenue, Suite 503
Windsor, ONT N9E 1S3 CANADA

Emergency Telephone Number
Company Phone Number 815-895-9101 | 800-435-4482 (Canada)
Emergency Telephone (24 hr) 1-800-255-3924

2. Hazards Identification

Appearance: Tan viscous liquid **Physical State:** Liquid **Odor:** Slight amine

Classification

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1
Germ cell mutagenicity	Category 1B
Reproductive toxicity	Category 2

Hazards Not Otherwise Classified (HNOC)
May be harmful in contact with skin

Signal Word
Danger

Hazard Statements
Harmful if swallowed
Causes skin irritation
Causes serious eye damage
May cause an allergic skin reaction
May cause genetic defects
Suspected of damaging fertility or the unborn child

(Contd. on page 10)

Precautionary Statements - Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood Use personal protective equipment as required. Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace Wear protective gloves

Precautionary Statements - Response

If exposed or concerned: Get medical advice/attention
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a poison center or doctor/physician IF ON SKIN: Wash with plenty of soap and water Take off contaminated clothing and wash it before reuse Get immediate medical advice/attention
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other Hazards

Toxic to aquatic life with long lasting effects

Unknown Acute Toxicity

54.5% of the mixture consists of ingredients) of unknown toxicity

3. Composition/Information On Ingredients

Chemical Name	CAS No	Weight-%
9, 12-Octadecadienoic Acid (Z,Z), dimer, polymer	68541-13-9	15-40
Amine Terminated Liquid Copolymer	68683-29-4	5-25
Fused Silica	60676-86-0	4-10
3,3-[Oxybis(2,1-ethane-diyloxy)Ibis-1-propylamine	4246-51-9	2-8
Benzyl alcohol	100-51-6	2-8
Synthetic Amorphous Silica	67762-90-7	1-5
Imidazole	288-32-4	1-5
Bisphenol A	80-05-7	1-5
N-Aminoethyl piperazine	140-31-8	1-5
Nony l phenol	25154-52-3	1-5
Triethylene tetramine	112-24-3	< 1
Stoddard solvent	8052-41-3	< 0.3
Benzyldimethylamine	103-83-3	< 1

If Chemical Name/CAS No is “proprietary” and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

(Contd. on page 11)

4. First-Aid Measures

First Aid Measures

General Advice If exposed or concerned: Get medical advice/attention.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek immediate medical attention/advice.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing. Wash contaminated clothing before reuse. Get medical attention immediately.

Inhalation Remove to fresh air. Get medical attention immediately.

Ingestion Rinse mouth. Do not induce vomiting. Give two glasses of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Most important symptoms and effects

Symptoms Symptoms of eye contact may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision, or complete loss of vision. Symptoms of skin contact may include localized redness, swelling, itching, intense pain, blistering, ulceration, and tissue destruction. Symptoms of inhalation may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. Symptoms of ingestion may include severe mouth, throat, and abdominal pain; nausea, vomiting, and diarrhea; blood in the feces and/or vomitus may also be seen.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. Fire-Fighting Measures

Suitable Extinguishing Media Use fire extinguishers with class B extinguishing agents. Dry chemical. Carbon dioxide (CO2).

Unsuitable Extinguishing Media Water or foam may cause frothing.

Specific Hazards Arising from the Chemical No specific fire or explosion hazard.

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.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions Use personal protective equipment as required.

Environmental Precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

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

Methods for Clean-Up Contain and collect with an inert absorbent and place into an appropriate container for disposal. Spills and releases may have to be reported to Federal and/or local authorities. See section 15. Clean up residue with an appropriate organic solvent.

(Contd. on page 12)

7. Handling And Storage

Precautions for safe handling

Advice on Safe Handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protection recommended in Section 8. Wash thoroughly after handling. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Carefully vent any internal pressure before removing closure. Avoid contact with skin and eyes. Avoid breathing dust created by cutting, sanding, grinding, or machining.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children. Store away from incompatible materials. Protect from direct sunlight. Keep away from heat.

Incompatible Materials

Strong oxidizing agents..

8. Exposure Controls/Personal Protection

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Fused Silica 60676-86-0		(vacated) TWA: 0.1 mg/m^3 respirable dust (80)(% SiO2) mg/m^3 TWA - TWA: 20 mppcf	
Stoddard solvent 8052-41-3	TWA: 100 ppm	TWA: 500 ppm - TWA: 2900 mg/m^3 (vacated) TWA: 100 ppm (vacated) TWA: 525 mg/m^3	IDLH: 20000 mg/m^3 Ceiling: 1800 mg/m^3 15 min TWA: 350 mg/m^3

Appropriate engineering controls

Engineering Controls

Use a local exhaust or general dilution ventilation system.

Individual protection measures, such as personal protective equipment

Eye/Face Protection

Full-face shield. Safety glasses with side-shields. Indirect vented goggles.

Skin and Body Protection

Consult the glove manufacturer for the most appropriate glove material. Use body protection appropriate for task. Nitrile or Neoprene gloves may afford adequate skin protection.

Respiratory Protection

Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: Half face-piece or full-face air-purifying respirator with P95 particulate filters.

General Hygiene Considerations

Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Wash contaminated clothing before reuse.

(Contd. on page 13)

9. Physical And Chemical Properties

Information on basic physical and chemical properties

Physical State: Liquid

Appearance: Tan viscous liquid

Color: Tan

Odor: Slight Amine

Odor Threshold: Not determined

Property	Values	Remarks • Method
pH	Not applicable	
Melting Point/Freezing Point	Not applicable	
Boiling Point/Boiling Range	>= 110 °C / 230 °F	
Flash Point	> 93 °C / 200 °F	CC (closed cup)
Evaporation Rate	< 1	
Flammability (Solid, Gas)	n/a-liquid	
Upper Flammability Limits	No data available	
Lower Flammability Limit	No data available	
Vapor Pressure	No data available	
Vapor Density	No data available	
Specific Gravity	-1.07	(1=Water)
Water Solubility	Negligible	
Solubility in other solvents	Not determined	
Partition Coefficient	No data available	
Auto-ignition Temperature	No data available	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	
Dynamic Viscosity	>400 centistokes	
Explosive Properties	Not determined	
Oxidizing Properties	Not determined	
VOC Content	No data available	
Density	8.94 lb/gal	

10. Stability And Reactivity

Reactivity Not reactive under normal conditions.

Chemical Stability Stable under recommended storage conditions.

Possibility of Hazardous Reactions None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

Conditions to Avoid Keep out of reach of children.

Incompatible Materials Strong oxidizing agents.

Hazardous Decomposition Products Carbon oxides.

(Contd. on page 14)

11. Toxicological Information

Information on likely routes of exposure

Product Information

Eye Contact Causes serious eye damage.

Skin Contact May cause an allergic skin reaction. Causes skin irritation. May be harmful in contact with skin.

Inhalation Avoid breathing vapors or mists.

Ingestion Harmful if swallowed.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2, 4 tri(dimethylaminomethy/phen - 90-72-2	= 1000 mg/kg (Rat)	= 1280 mg/kg (Rat)	
3,3-[Oxybis(2,1-ethane-diyloxy)]bis 1-propylamine - 4246-51-9	= 4290 L/kg (Rat)	= 2500 ML/kg (Rabbit)	
Benzyl alcohol - 100-51-6	= 1230 mg/kg (Rat)	= 2000 mg/kg (Rabbit)	= 8.8 mg/L (Rat) 4 h
Imidazole - 288-32-4	= 220 mg/kg (Rat)		
Bisphenol A - 80-05-7	= 3200 mg/kg (Rat)	= 3000 mg/kg (Rabbit)	
N-Aminoethyl piperazine - 140-31-8	= 2140 mg/kg (Rat)	= 880 mg/kg (Rabbit)	
Nony| phenol - 25154-52-3	= 580 mg/kg (Rat)	= 2031 mg/kg (Rabbit)	
Triethylene tetramine - 112-24-3	= 2500 mg/kg (Rat)	= 550 mg/kg (Rabbit)	
Benzyldimethylamine - 103-83-3	= 265 mg/kg (Rat)	= 1660 mg/kg (Rabbit)	

Information on physical, chemical and toxicological effects

Symptoms Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization May cause an allergic skin reaction.

Germ cell mutagenicity May cause genetic defects.

Carcinogenicity Not classifiable as a human carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Fused Silica 60676-86-0		Group 3		

IARC (International Agency for Research on Cancer)
Group 3 IARC components are “not classifiable as human carcinogens”

Reproductive toxicity Suspected of damaging fertility or the unborn child.

Numerical measures of toxicity Not determined

Unknown Acute Toxicity 54.5% of the mixture consists of ingredient(s) of unknown toxicity.

(Contd. on page 15)

12. Ecological Information

Ecotoxicity Toxic to aquatic life with long lasting effects.

Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Benzyl alcohol 100-51-6	35: 3 h Anabaena variabilis mg/L EC50	460: 96 h Pimephales promelas mg/L LC50 static 10: 96 h Lepomis macrochirus mg/L LC50 static	EC50 = 50 mg/L 5 min EC50 = 63.7 mg/L 15 min EC50 = 63.7 mg/L 5 min EC50 = 71.4 mg/L 30 min	23: 48 h water flea mg/L EC50
Imidazole 288-32-4	130: 72 h Desmodesmus subspicatus mg/L EC50 82: 96 h Desmodesmus subscapitata mg/L EC50			341.5: 48 h Daphnia magna mg/L EC50
Bisphenol A 80-05-7	2.5: 96 h Pseudokirchneriella subcapitata mg/L EC50	3.6 - 5.4: 96 h Pimephales promelas mg/L LC50 flow-through 4.0 - 5.5: 96 h Pimephales promelas mg/L LC50 static 4: 96 h Oncorhynchus mykiss mg/L LC50 9.9: 96 h Brachydanio rerio mg/L LC50 static		10.2: 48 h Daphnia magna mg/L EC50 3.9: 48 h Daphnia magna mg/L EC50 9.2 - 11.4: 48 h Daphnia magna mg/L EC50 Static
N-Aminoethyl piperazine 140-31-8	495: 72 h Pseudokirchneriella subcapitata mg/L EC50	1950 - 2460: 96 h Pimephales promelas mg/L LC50 flow-through 1000: 96 h Poecilia reticulata mg/L LC50 semi-static 100: 96 h Oncorhynchus mykiss mg/L LC50 semi-static		32: 48 h Daphnia magna mg/L EC50
Nonylphenol 25154-52-3	0.41: 96 h Pseudokirchneriella subcapitata mg/L EC50 1.3: 72 h Desmodesmus subspicatus mg/L EC50	0.135: 96 h Pimephales promelas mg/L LC50 flow - through		0.14: 48 h Daphnia magna mg/L EC50 0.17 - 0.21: 48 h Daphnia magna mg/L EC50 Static 0.0874 - 0.124: 48 h Daphnia magna mg/L EC50 semi-static
Triethylene tetramine 112-24-3	2.5: 72 h Desmodesmus subspicatus mg/L EC50 20: 72 h Pseudokirchneriella subcapitata mg/L EC50 3.7: 96 h Pseudokirchneriella subcapitata mg/L EC50	570: 96 h Poecilia reticulata mg/L LC50 semi-static 495: 96 h Pimephales promelas mg/L LC50		31.1: 48 h Daphnia magna mg/L EC50
Benzyldimethylamine 103-83-3		35.8 - 39.9: 96 h Pimephales promelas mg/L LC50 - flow-through		

Persistence/Degradability Not determined.

Bioaccumulation Not determined.

(Contd. on page 16)

Mobility

Chemical Name	Partition Coefficient
Benzyl alcohol - 100-51-6	1.1
Imidazole - 288-32-4	0.02
Bisphenol A - 80-05-7	2.2
N-Aminoethyl piperazine - 140-31-8	-1.48
Nony| phenol - 25154-52-3	3.28
Triethylene tetramine - 112-24-3	-1.4

Other Adverse Effects Not determined.

13. Disposal Considerations

Waste Treatment Methods

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and regulations.

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
2,4,6-tri(dimethylaminomethyl)phenol 90-72-2		Included in waste stream: K060		

14. Transport Information

Note Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT Not regulated

IATA Not regulated

IMDG
Marine Pollutant This material may meet the definition of a marine pollutant

15. Regulatory Information

International Inventories

TSCA Listed
DSL Listed
EINECS Listed
AICS Listed

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

(Contd. on page 17)

US Federal Regulations

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Reactive Hazard	Yes

SARA 313

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Bisphenol A - 80-05-7	80-05-7	1-5	1.0

US State Regulations

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Fused Silica -60676-86-0	X	X	
Benzyl alcohol - 100-51-6		X	X
Bisphenol A - 80-05-7	X	X	X
N-Aminoethyl piperazine - 140-31-8	X	X	X
Nonylphenol - 25154-52-3		X	X
Triethylene tetramine - 112-24-3	X	X	X
Stoddard solvent - 8052-41-3	X	X	X
Benzyldimethylamine - 103-83-3	X		

16. Other Information

NFPA	**Health Hazards** 3	**Flammability** 1	**Instability** 0	**Special Hazards** None
HMIS	**Health Hazards** Not determined	**Flammability** Not determined	**Physical Hazards** Not determined	**Personal Protection** Not determined

Issue Date: 09/16/2024

Disclaimer

The information provided in this 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.

End of Safety Data Sheet