

Material Safety Data Sheet Aggretex Systems 252 West Larch Road, Suite A • Tracy, CA 95304

AGGREFX EPOXY PART A

I. PRODUCT AND COMPANY IDENTIFICATION

1.1 Trade Name (as labeled):

Synonyms: CAS No: 1.2 Product Use: 1.3 Company Name: Company Address Company Address Cont: Business Phone: Website

AggrEFX Epoxy Part A N/A Mixture Epoxy bonding adhesive AggretexSC, LLC 5637 La Ribera St., Suite C Livermore, CA 94550 877.519.5886 aggretex.com

<u>1.4 Emergency Telephone Number:</u>

Date of Current Revision: Date of Last Revision:

II. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: This product is a white colored liquid with a characteristic odor. Health <u>Hazards:</u> May cause skin and eye irritation. Contact with skin may cause allergic reaction. Flammability Hazards: This product is not a flammable liquid.

Reactivity Hazards: None.

<u>Environmental Hazards</u>: The environmental effects of this product have not been investigated, however release may cause long term adverse environmental effects.

US DOT Symbols:

EU and GHS Symbols:

Signal Word:

2.1 EU Labeling and Classification:

This product meets the definition of a hazardous substance or preparation as defined by the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives.

Not Regulated



MATERIALS SAFETY DATA SHEET

AGGRETEXSC, LLC

May 14, 2018 May 14, 2018



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EU HAZARD CLASSIFICATION OF INGREDIENTS PER DIRECTIVE 1272/2008/EC: Index Number: 500-033-5 is listed in Annex I 603-074-00-8 218-645-3 is listed in Annex I 603-056-00-X Substances not listed either individually or in group entries must be self classified. Components Contributing to Classification: Bisphenol A Diglycidyl Ether Resin, Glycidyl 2-methylphenyl Ether 2.2 Label Elements: GHS Hazard Classifications: Skin Irritation Category 2 Skin Sensitization Category 1 Eye Irritant Category 2 Germ Cell Mutagenicity Category 2 Chronic Aquatic Toxicity Category 2 Hazard Statements: H315 Causes skin irritation H319 Causes serious eye irritation lasting effects **Precautionary Statements:**

Response Statements:

H317 May cause an allergic skin reaction H341 Suspected of causing genetic defects H411 Toxic to aquatic life with long P280 Wear protective gloves/eye protection/face protection. P264 Wash thoroughly after handling. P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P272 Contaminated clothing should not be allowed out of the workplace. P273 Avoid release to the environment P302+P352 IF ON SKIN: Wash with plenty of water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332+P313 If skin irritation occurs: Get medical advice/attention. P337+P311 lf eye irritation persists:Get medical advice/attention.



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Storage Statements: **Disposal Statements:** P362+P364 Take off contaminated clothing and wash it before reuse. P308+P313 IF exposed or concerned: Get medical advice/attention. P391 Collect spillage. P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Health Hazards or Risks From Exposure:

Symptoms of Overexposure by Route of Exposure:

The most significant routes of overexposure for this product are by contact with skin or eyes. The symptoms of overexposure are described in the following paragraphs.

Acute:

Inhalation: May cause respiratory tract irritation. May cause headaches, drowsiness, or dizziness. Skin Contact: May be irritating to skin. Contact with skin may cause allergic reaction.

Eye Contact: May cause irritation to the eyes.

Ingestion: May be harmful if swallowed. May cause nausea or diarrhea.

Chronic: Not known.

Target Organs:

Acute: Eyes, Skin Chronic: Not known.

III. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients Bisphenol A Diglycidyl Ether Resin	WT% 60-70%	CAS No. 25068-38-6	EINECS No. 500-033-5	Hazard Classification Skin Irrit. 2, Skin Sens. 1, Eye Irrit. 2,
Glycidyl 2-methylphenyl Ether	5-10%	2210-79-9	218-645-3	Aquatic Chronic 2 Skin Irrit. 2, Skin Sens. 1, Muta. 2, Aquatic Chronic 2

Balance of other ingredients are non-hazardous or less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).

Note: All WHMIS required information is included in appropriate sections based on the ANSI Z400.1-2010 format. This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR, EU Directives and the Japanese Industrial Standard JIS Z 7250:2000

IV. FIRST AID MEASURES

4.1 Description of First Aid Measures:

Eye Contact:

If product enters the eyes, flush with plenty of water or eye wash solution for several minutes. Remove



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Skin Contact:	contacts if present and easy to do. Seek medical attention if irritation persists. Wash skin thoroughly with soap and water after handling. Seek medical attention if irritation develops and persists.
Inhalation:	If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention.
Ingestion:	If product is swallowed, call physician or poison center immediatly. If professional advice is not available, do not induce vomiting. Never induce vomiting or give dilutents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or SDS with the victim to the health professional.
Medical Conditions	I
Generally Aggravated	
By Exposure:	Pre-existing skin, respiratory system or eye problems may be aggravated by prolonged contact.
<u>4.2 Symptoms and Effects Both</u> <u>Acute and Delayed:</u> 4.3 Recommendations to Physicians:	Exposure to the eyes may cause irritation. Treat symptoms and eliminate overexposure.

V. FIRE FIGHTING MEASURES

5.1 Fire Extinguishing Materials:

Use the following fire extinguishing materials: Water Spray: Yes

Foam: Yes Halon: Yes Carbon Dioxide: Yes Dry Chemical: Yes Other: Any "C" Class

5.2 Unusual Fire and Explosion Hazards:

Irritating and toxic fumes may be produced at high temperatures. Use of water may result if the formation of a toxic aqueous solution. Do not allow run-off from fire fighting to enter drains or water courses.



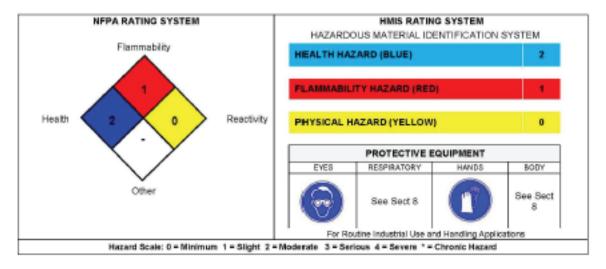
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Explosive Sensitivity to Mechanical Impact: Explosive Sensitivity to Static Discharge:

No No

5.3 Special Fire-Fighting Procedures:

- Incipient fire responders should wear eye protection.
- Structural firefighters must wear Self-Contained Breathing
- Apparatus (SCBA) and full protective equipment.
- Isolate materials not yet involved in the fire and protect personnel.
- Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray.
- If possible, prevent run-off water from entering storm drains, bodies of water, or other environmentally sensitive areas.



VI. ACCIDENTAL RELEASE MEASURES (STEPS FOR SPILLS)

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Use cautious judgment when cleaning up spill. Wear suitable protective clothing, gloves, and eye/ face protection.

6.2 Environmental Precautions:

Construct a dike to prevent spreading. Keep out of sewers, storm drains, surface waters, and soils. **6.3 Spill and Leak Response:**

Small Spills:

- Collect material via broom or mop. Place in tightly sealed containers for proper disposal.
- Approach spill areas with caution.
- If liquid was introduced, create a dike or trench to contain material.
- Soak up with absorbent material such as clay, sand or other suitable non-reactive material.



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Large Spills:

- Place in leak-proof containers. Seal tightly for proper disposal.
- Dispose of in accordance with U.S. Federal, State, and local hazardous waste disposal regulations and those of Canada and its Provinces, those of Australia, Japan and EU Member States (see Section 13, Disposal Considerations).

VII. HANDLING AND STORAGE

7.1 Precautions for Safe Handling:

To prevent eye contact under the foreseeable conditions of use, wear appropriate safety eyewear. When handling, do not eat, drink, or smoke. Wash thoroughly after handling. Do not handle or store near heat, sparks, or flame.

7.2 Storage and Handling Practices:

Keep away from incompatible materials. Keep container closed when not in use and store in well ventilated area.

7.3 Specific Uses:

Ероху.

VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Exposure Parameters:

Ingredients Bisphenol A Diglycidyl Ether Resin L	CAS No. 25068-38-6	OSHA PEL Not Listed	NIOSH PE Not Listed
Glycidyl 2-methylphenyl Ether	2210-79-9	Not Listed	Not Listed

8.2 Exposure Controls:

Ventilation and Engineering Controls:

Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above.

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132), or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.



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Respiratory Protection:	Not required for properly ventilated areas. Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.
Eye Protection:	Safety glasses or goggles are required. If necessary, refer to U.S. OSHA 29 CFR 1910.133, Canadian Standards, and the European Standard EN166, Australian
Hand Protection:	Standards, or relevant Japanese Standards. Chemical resistant gloves are required to prevent skin contact. If necessary, refer to U.S. OSHA 29 CFR 1910.138, the European Standard DIN EN 374, the appropriate Standards of Canada, Australian Standards, or relevant Japanese Standards.
Body Protection:	Use body protect appropriate to task being performed. If necessary, refer to appropriate Standards of Canada, or appropriate standards of the EU, Australian Standards, or relevant Japanese Standards. If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or where employee's feet may be exposed to electrical hazards, use foot protection, as described in U.S. OSHA 29 CFR 1910.136.

IX. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties:

Appearance (Physical State and Color): white liquid Odor: Characteristic Odor Threshold: No data available pH: No data available Melting/Freezing Point: No data available Boiling Point: 300°F (148.9°C) Flash Point: 200°F (93°C) Evaporation Rate: No data available



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Flammability (Solid; Gas): Not applicable Upper/Lower Flammability or Explosion Limits: No data available Vapor Pressure (mm Hg @ 20°C (68° F): No data available Vapor Density: No data available Relative Density: No data available Specific Gravity: 1.1 Solubility in Water: Not miscible Weight per Gallon: No data available Partition Coefficient (n-octanol/water): No data available Auto-Ignition Temperature: No data available Decomposition Temperature: No data available Viscosity: No data available 9.2 Other Information: No data available

X. STABILITY AND REACTIVITY

<u>10.1 Reactivity:</u> <u>10.2 Stability:</u>	This product is not reactive. Stable under conditions of normal storage and use.
<u>10.3 Possibility of Hazardous Reactions:</u>	Will not occur.
•	
10.4 Conditions to Avoid:	Heat, open flame or other sources of ignition
<u>10.5 Incompatible Substances:</u>	Strong oxidizing agents
<u>10.6 Hazardous Decomposition Products:</u>	Carbon monoxide, Carbon dioxide and other
	decomposition products can occur during
	combustion if not use according to specifications.

XI. TOXICOLOGY INFORMATION

11.1 Information on Toxicological Effects:

Toxicity Data:

Bisphenol A Diglycidyl Ether Resin	25068-38-6	LD50 Oral – Rat	13,600 mg/kg	
Glycidyl 2-methylphenyl Ether	2210-79-9	LD50 Oral – Rat	4,000 mg/kg	
Suspected Cancer Agent:	Ingredients with	in this product are not foun	id on one or more	
	of the following	lists: FEDERAL OSHA Z LIS	ST, NTP, IARC, or	
	CAL/OSHA and	therefore are not consider	ed to be	
	cancer-causing	agents by these agencies.		
Irritancy:	Skin, eye irritan [.]	t.		
Sensitization to the Product:	This product is i	not expected to cause skin	sensitization.	
Germ Cell Mutagenicity:	This product does not contain ingredients that are			
	suspected to be	e a germ cell mutagenic.		
Reproductive Toxicity:	No data availab	le.		



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XII. ECOLOGICAL INFORMATION

12.1 Toxicity:

Bisphenol A 25068-38-6 Diglycidyl Ether Resin Glycidyl 2210-79-9 2-methylphenyl Ether 12.2 Persistence and Degradability: 12.3 Bioaccumulative Potential: 12.4 Mobility in Soil: 12.5 Results of PBT and vPvB Assessment: 12.6 Other Adverse Effects: 12.7 Water Endangerment Class:

LC50 – Rainbow Trout EC50 – Algae LC50 – Fish

<10 mg/l – 96h 2.8-5.1 mg/l – 96h

No specific data available on this product. No specific data available on this product. No specific data available on this product. No specific data available on this product.

No data available At present, there are no ecotoxicological assessments for this product.

XIII. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations, those of Australia, EU Member States and Japan. Not determined

13.2 EU Waste Code:

XIV. TRANSPORTATION INFORMATION

14.1 U.S. Department of Transportation (DOT) Shipping Regulations:

This product is classified (per 49 CFR 172.101) by the U.S. Department of Transportation, as follows.

UN Identification Number:	None
Proper Shipping Name:	None
Hazard Class Number and Description:	None
Packing Group:	None
DOT Label(s) Required:	None
North American Emergency Response	
Guidebook Number:	None
14.2 Environmental Hazards:	
Marine Pollutant	The components of this product are designated by
	the Department of Transportation to be Marine
	Pollutants (49 CFR 172.101, Appendix B).
<u>14.3 Special Precaution for User:</u>	

14.4 International Air Transport Association Shipping Information (IATA):

This product is considered as dangerous goods.



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14.5 International Maritime Organization

Shipping Information (IMO):

UN Identification Number: Proper Shipping Name: Hazard Class Number and Description: Packing Group: EMS-No: Not regulated None None None None

XV. REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations Specific for the Substance or Mixture:

United States Regulations:

U.S. SARA Reporting Requirements:

The components of this product are subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act.

U.S. SARA 311/312:

Acute Health: Yes; Chronic Health: No; Fire: No; Reactivity; No

U.S. CERCLA Reportable Quantity:

Not Applicable

U.S. TSCA Inventory Status:

The components of this product are listed on the TSCA Inventory or are exempted from listing.

Other U.S. Federal Regulations:

None known

California Safe Drinking Water and Toxic Enforcement Act (Proposition 66):

This product does not contain ingredients on the Proposition 65 Lists.

15.2 Canadian Regulations:

Canadian DSL/NDSL Inventory Status:

Components are DSL Listed, NDSL Listed and/or are exempt from listing

Other Canadian Regulations:

Not applicable

Canadian Environmental Protection Act (CEPA) Priorities Substances Lists:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian WHMIS Classification and Symbols:

This product is Class D2A, Materials causing other toxic effects, per WHMIS Controlled Product Regulations





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15.3 European Economic Community Information:

This product meets the definition of a hazardous substance or preparation as defined by the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives. See Section 2 for Details.

Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier. 15.4 Australian Information for Product:

Components of this product are listed on the International Chemical Inventory list.

15.5 Japanese Information for Product:

Japanese Minister of International Trade and Industry (MITI) Status: The components of this product are not listed as Class I specified Chemical Substances, Class II Specified Chemical Substances, or Designated Chemical Substances by the Japanese MITI.

15.6 International Chemical Inventories:

Listing of the components on individual country Chemical Inventories is as follows: Australian Inventory of Chemical Substances (AICS): Listed

Korean Existing Chemicals List (ECL): Listed

Japanese Existing National Inventory of Chemical Substances (ENCS): Listed Philippines Inventory if Chemicals and Chemical Substances (PICCS): Listed U.S. TSCA: Listed

XVI. OTHER INFORMATION

Prepared By: Chris Eigbrett (MSDS to GHS Compliance) Date of Printing: May 14, 2018

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of the need that information is current, applicable and suited to the circumstances of use. This safety sheet cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. AggretexSC, LLC assumes no responsibility for injury to vendee or third party person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, AggretexSC, LLC assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.

END OF SDS SHEET



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I. PRODUCT AND COMPANY IDENTIFICATION

1.1 Trade Name (as labeled):

Synonyms: CAS No: **1.2 Product Use: 1.3 Company Name:** Company Address Company Address Cont: Business Phone: Website **1.4 Emergency Telephone Number:** Date of Current Revision: Date of Last Revision: AggrEFX Epoxy Part B N/A Mixture Epoxy bonding adhesive AggretexSC, LLC 5637 La Ribera St., Suite C Livermore, CA 94550 877.519.5886 aggretex.com

May 14, 2018 May 14, 2018

II. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: This product is a gray colored liquid with a characteristic odor. Health <u>Hazards:</u> May cause skin, eye and respiratory system irritation. Inhalation may cause drowsiness or dizziness. Contact with skin may cause allergic reaction.

<u>Flammability Hazards:</u> This product is a non-flammable liquid.

Reactivity Hazards: None.

<u>Environmental Hazards</u>: The environmental effects of this product have not been investigated, however release may cause long term adverse environmental effects.

US DOT Symbols:

Signal Word:

EU and GHS Symbols:



Danger

2.1 EU Labeling and Classification:

This product meets the definition of a hazardous substance or preparation as defined by the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives. **EU HAZARD CLASSIFICATION OF INGREDIENTS PER DIRECTIVE 1272/2008/EC: Index Number:** 265-199-0 is listed in Annex I 649-356-00-4 284-325-5 is listed in Annex I 601-053-00-8 CAS 68410-23-1 is not listed in Annex I 202-013-9 is listed in Annex I 603-069-00-0 CAS 275-162-0 is not listed in Annex I



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Substances not listed either individually or in group entries must be self classified. Components Contributing				
to Classification:	Polyethylene-polyamines, 4-Nonylphenol, 2,4,6- tris(dimethylaminomethyl)phenol, Fatty acids,			
2.2 Label Elements:	tall-oil, polymers with linoleic acid dimers and tetraethylenepentamine, bis[(dimethylamino)methyl]phenol			
GHS Hazard Classifications:	Skin Sensitization Category 1 Skin Corrosive Category 1B			
	Acute Toxicity Category 3 (dermal) Reproductive Toxicity Category 2 Acute Aquatic Toxicity Category 1 Chronic Aquatic Toxicity Category 1			
Hazard Statements:	H314 Causes severe skin burns and eye damage H317 May cause an allergic skin reaction H311 Toxic in contact with skin H361 Suspected of damaging fertility or the unborn child H400 Very toxic to aquatic life			
Precautionary Statements:	H410 Very toxic to aquatic life with long lasting effects P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe dusts or mists.			
	P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves/eye			
	protection/face protection. P264 Wash thoroughly after handling. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P273 Avoid release to the environment.			
Response Statements:	P273 Avoid release to the environment. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting P303+P361+P353 IF ON SKIN (or hair): Take off immediately			
	all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P302+P352 IF ON SKIN: Wash with plenty of water. P321 Specific treatment (see supplemental first aid instructions on this label).			



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P332+P313 If skin irritation occurs: Get medical advice/attention. P363 Wash contaminated clothing before reuse

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P310 Immediately call a POISON CENTER/doctor if you feel unwell. P405 Store locked up. P501

Storage Statements: Disposal Statements:

Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Health Hazards or Risks From Exposure:

Symptoms of Overexposure by Route of Exposure:

The most significant routes of overexposure for this product are by contact with skin or eyes. The symptoms of overexposure are described in the following paragraphs.

Acute:

Inhalation: May cause respiratory tract irritation. May cause headaches, drowsiness, or dizziness. Skin Contact: A single prolonged exposure may result in the absorption of harmful amounts. May cause burns or redness.

Contact with skin may cause allergic reaction.

Eye Contact: Corrosive material may cause irritation with possible burns and tissue damage. Ingestion: Harmful if swallowed. May cause nausea and diarrhea.

Chronic: Repeated exposure may cause skin dryness or cracking.

Target Organs:

Acute: Skin, Eyes Chronic: Skin.

III. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients Fatty acids, tall-oil, polymers with linoleic acid dimers and	WT% 20-30%	CAS No. 68410-23-1	EINECS No. Not listed	Hazard Classification Acute Tox. 3 (dermal), Skin Corr. 1B
tetraethylenepentamine Polyethylene-polyamines	20-70%	68131-73-7	268-626-9	Acute Tox. 4 (oral), Acute Tox. 4 (dermal)

Acute Tox. 4 (oral), Acute Tox. 4 (dermal), Skin Corr, 1B, Skin Sens,1, Aquatic Acute1, Aquatic Chron.



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4-Nonylphenol	15-30%	84852-15-3	284-325-5	Acute Tox. 4 (oral), Skin Corr, 1B, Repr Tox.2, Aquatic Acute1, Aquatic Chron.1
2,4,6- tris(dimethylaminomethyl)				
phenol	1-5%	90-72-2	202-013-9	Acute Tox. 4(Oral), Skin Irrit.2, Eye Irrit.2
bis[(dimethylamino)				-
methyl]phenol	1-5%	71074-89-0	275-162-0	Skin Corr, 1B
1-Piperazineethanamine	10-25%	140-31-8		
Delance of ether increadion			a + han 10/ in	appropriation /or 0 10/ for porcing

Balance of other ingredients are non-hazardous or less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).

Note: All WHMIS required information is included in appropriate sections based on the ANSI Z400.1-2010 format. This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR, EU Directives and the Japanese Industrial Standard JIS Z 7250:2000

IV. FIRST AID MEASURES

4.1 Description of First Aid Measures	
Eye Contact:	If product enters the eyes, flush with plenty of water or eye wash solution for several minutes. Remove contacts if present and easy to do. Seek medical attention if irritation persists.
Skin Contact:	Wash skin thoroughly with soap and water after handling. Seek medical attention if irritation develops and persists.
Inhalation:	If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention.
Ingestion:	If product is swallowed, call physician or poison center immediately. If professional advice is not available, do not induce vomiting. Never induce vomiting or give dilutents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or SDS with the victim to the health professional.
Medical Conditions Generally Aggravated By Exposure:	Pre-existing skin, respiratory system or eye problems may be aggravated by prolonged contact.



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<u>4.2 Symptoms and Effects Both Acute and Delayed:</u> Exposure to skin and eyes may cause burns or redness.

4.3 Recommendations to Physicians: Treat symptoms and eliminate overexposure

V. FIRE FIGHTING MEASURES

5.1 Fire Extinguishing Materials:

Use the following fire extinguishing materials:

Water Spray: Yes Foam: Yes Halon: Yes Carbon Dioxide: Yes Dry Chemical: Yes Other: Any "C" Class

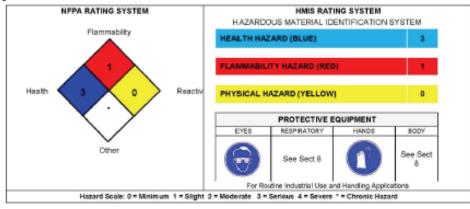
5.2 Unusual Fire and Explosion Hazards:

Irritating and toxic fumes may be produced at high temperatures. Use of water may result if the formation of a toxic aqueous solution. Do not allow run-off from fire fighting to enter drains or water courses.

Explosive Sensitivity to Mechanical Impact:	No
Explosive Sensitivity to Static Discharge:	No

5.3 Special Fire-Fighting Procedures:

- Incipient fire responders should wear eye protection.
- Structural firefighters must wear Self-Contained Breathing
- Apparatus (SCBA) and full protective equipment.
- Isolate materials not yet involved in the fire and protect personnel.
- Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray.
- If possible, prevent run-off water from entering storm drains, bodies of water, or other environmentally sensitive areas.





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VI. ACCIDENTAL RELEASE MEASURES (STEPS FOR SPILLS)

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Use cautious judgment when cleaning up spill. Wear suitable protective clothing, gloves, and eye/ face protection.

6.2 Environmental Precautions:

Construct a dike to prevent spreading. Keep out of sewers, storm drains, surface waters, and soils. **6.3 Spill and Leak Response:**

Small Spills:

- Collect material via broom or mop. Place in tightly sealed containers for proper disposal.
- Approach spill areas with caution.
- If liquid was introduced, create a dike or trench to contain material.
- Soak up with absorbent material such as clay, sand or other suitable non-reactive material.

Large Spills:

- Place in leak-proof containers. Seal tightly for proper disposal.
- Dispose of in accordance with U.S. Federal, State, and local hazardous waste disposal regulations and those of Canada and its Provinces, those of Australia, Japan and EU Member States (see Section 13, Disposal Considerations).

VII. HANDLING AND STORAGE

7.1 Precautions for Safe Handling:

To prevent eye contact under the foreseeable conditions of use, wear appropriate safety eyewear. When handling, do not eat, drink, or smoke. Wash thoroughly after handling. Do not handle or store near heat, sparks, or flame.

7.2 Storage and Handling Practices:

Keep away from incompatible materials. Keep container closed when not in use and store in well ventilated area.

7.3 Specific Uses:

Ероху.

VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Exposure Parameters:

Ingredients	CAS No.	OSHA PEL	NIOSH PEL
Polyethylene-polyamines	68131-73-7	Not Listed	Not Listed
4-Nonylphenol	84852-15-3	Not Listed	Not Listed
Fatty acids, tall-oil, polymers			
with linoleic acid dimers			
and tetraethylenepentamine	68410-23-1	Not Listed	Not Listed



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2,4,6-

_, ., -			
tris(dimethylaminomethyl)phenol	90-72-2	Not Listed	Not Listed
bis[(dimethylamino)methyl]phenol	71074-89-0	Not Listed	Not Listed
1-Piperazineethanamine	140-31-8	Not Listed	Not Listed

8.2 Exposure Controls:

Ventilation and Engineering Controls:

Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above.

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132), or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.

Respiratory Protection:

Not required for properly ventilated areas. Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.

IX. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties: Appearance (Physical State and Color): Gray liquid **Odor:** Characteristic Odor Threshold: No data available **pH:** No data available Melting/Freezing Point: No data available **Boiling Point:** 300°F (148.9°C) Flash Point: 200°F (93°C) Evaporation Rate: No data available Flammability (Solid; Gas): Not applicable Upper/Lower Flammability or Explosion Limits: No data available Vapor Pressure (mm Hg @ 20°C (68° F): No data available Vapor Density: No data available Relative Density: No data available Specific Gravity: 1.1 Solubility in Water: Not miscible Weight per Gallon: No data available



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Partition Coefficient (n-octanol/water): No data available Auto-Ignition Temperature: No data available Decomposition Temperature: No data available Viscosity: No data available 9.2 Other Information: No data available

X. STABILITY AND REACTIVITY

- 10.1 Reactivity:
- 10.2 Stability:
- 10.3 Possibility of Hazardous Reactions:
- 10.4 Conditions to Avoid:
- **10.5 Incompatible Substances:**
- **10.6 Hazardous Decomposition Products:**

This product is not reactive. Stable under conditions of normal storage and use. Will not occur. Heat, open flame or other sources of ignition. Strong oxidizing agents. Carbon monoxide, Carbon dioxide and other decomposition products can occur during combustion if not use according to specifications.

XI. TOXICOLOGY INFORMATION

<u>11.1 Information on Toxi</u> Toxicity Data:	cological Effects:		
4-Nonylphenol	84852-15-3	LD50 Oral-Rat	1,412 mg/kg
Suspected Cancer Agent	:	or more of the following	L/OSHA and therefore are
Irritancy:		Skin, eye and respiratory	irritant.
Sensitization to the Prod	uct:	This product is not expect	ted to cause skin sensitization.
Germ Cell Mutagenicity:		This product does not co suspected to be a germ	ontain ingredients that are cell mutagenic.
Reproductive Toxicity:		This product is expected toxicant.	to be a human reproductive

XII. ECOLOGICAL INFORMATION

12.1	Toxicity:
12.1	TOXICITY.

4-Nonylphenol 848	352-15-3
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Polyethylene-polyamines 68131-73-7

3

LC50 – Lepomis macrochirus EC50 – Algae LC50-Guppy EC50- Water flea

0.209 mg/l -96h 0.33 mg/l – 72h 75 mg/l – 72h 2.2 mg/l – 48h



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 12.2 Persistence and Degradability: 12.3 Bioaccumulative Potential: 12.4 Mobility in Soil: 12.5 Results of PBT and vPvB Assessment: 12.6 Other Adverse Effects: 12.7 Water Endangerment Class: 	No specific data available on this product. No data available At present, there are no ecotoxicological assessments for this product.
XIII. DISPOSAL CONSIDERATIONS	
13.1 Waste Treatment Methods: 13.2 EU Waste Code:	Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations, those of Australia, EU Member States and Japan Not determined
XIV. TRANSPORTATION INFORMATION	

14.1 U.S. Department of Transportation (DOT) Shipping Regulations:

1	by the U.S. Department of Transportation, as follows.
UN Identification Number:	UN2815
Proper Shipping Name:	N-Aminotheylpiperazine
Hazard Class Number and Description:	Class 8 – Corrosive substances
Packing Group:	
DOT Label(s) Required:	Corrosive substances
North American Emergency Response	
Guidebook Number:	153
14.2 Environmental Hazards:	
Marine Pollutant:	The components of this product are designated by
	the Department of Transportation to be Marine
	Pollutants (49 CFR 172.101, Appendix B).
14.3 Special Precaution for User:	None
14.3 Special Precaution for User: 14.4 International Air Transport Association	None
•	None This product is considered as dangerous goods.
14.4 International Air Transport Association	
14.4 International Air Transport Association Shipping Information (IATA):	
14.4 International Air Transport AssociationShipping Information (IATA):14.5 International Maritime Organization	
14.4 International Air Transport AssociationShipping Information (IATA):14.5 International Maritime OrganizationShipping Information (IMO):	This product is considered as dangerous goods.
 14.4 International Air Transport Association Shipping Information (IATA): 14.5 International Maritime Organization Shipping Information (IMO): UN Identification Number: 	This product is considered as dangerous goods. UN2815
 14.4 International Air Transport Association Shipping Information (IATA): 14.5 International Maritime Organization Shipping Information (IMO): UN Identification Number: Proper Shipping Name: 	This product is considered as dangerous goods. UN2815 N-Aminotheylpiperazine
 14.4 International Air Transport Association Shipping Information (IATA): 14.5 International Maritime Organization Shipping Information (IMO): UN Identification Number: Proper Shipping Name: Hazard Class Number and Description: 	This product is considered as dangerous goods. UN2815 N-Aminotheylpiperazine Class 8 – Corrosive substances
 14.4 International Air Transport Association Shipping Information (IATA): 14.5 International Maritime Organization Shipping Information (IMO): UN Identification Number: Proper Shipping Name: Hazard Class Number and Description: Packing Group: 	This product is considered as dangerous goods. UN2815 N-Aminotheylpiperazine Class 8 – Corrosive substances III



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XV. REGULATORY INFORMATION

<u>15.1 Safety, Health and Environmental Regulations Specific for the Substance or Mixture: United States Regulations:</u>

U.S. SARA Reporting Requirements:

The components of this product are subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act.

U.S. SARA 311/312:

Acute Health: Yes; Chronic Health: Yes; Fire: No; Reactivity; No

U.S. CERCLA Reportable Quantity:

Not Applicable

U.S. TSCA Inventory Status:

The components of this product are listed on the TSCA Inventory or are exempted from listing.

Other U.S. Federal Regulations:

None known

California Safe Drinking Water and Toxic Enforcement Act (Proposition 66):

This product does not contain ingredients on the Proposition 65 Lists.

15.2 Canadian Regulations:

Canadian DSL/NDSL Inventory Status:

Components are DSL Listed, NDSL Listed and/or are exempt from listing

Other Canadian Regulations:

Not applicable

Canadian Environmental Protection Act (CEPA) Priorities Substances Lists:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian WHMIS Classification and Symbols:

This product is Class E, Corrosive, and D2B, Materials causing other toxic effects, per WHMIS Controlled Product Regulations.



15.3 European Economic Community Information:

This product meets the definition of a hazardous substance or preparation as defined by the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives. See Section 2 for Details.

Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier. **15.4 Australian Information for Product:**

Components of this product are listed on the International Chemical Inventory list.



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15.5 Japanese Information for Product:

Japanese Minister of International Trade and Industry (MITI) Status: The components of this product are not listed as Class I specified Chemical Substances, Class II Specified Chemical Substances, or Designated Chemical Substances by the Japanese MITI.

15.6 International Chemical Inventories:

Listing of the components on individual country Chemical Inventories is as follows: Australian Inventory of Chemical Substances (AICS): Listed Korean Existing Chemicals List (ECL): Listed Japanese Existing National Inventory of Chemical Substances (ENCS): Listed Philippines Inventory if Chemicals and Chemical Substances (PICCS): Listed U.S. TSCA: Listed

XVI. OTHER INFORMATION

Prepared By: Chris Eigbrett (MSDS to GHS Compliance) Date of Printing: May 14, 2018

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of the need that information is current, applicable and suited to the circumstances of use. This safety sheet cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. AggretexSC, LLC assumes no responsibility for injury to vendee or third party person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, AggretexSC, LLC assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.

END OF SDS SHEET