



SAFETY DATA SHEET

1. PRODUCTS AND COMPANY IDENTIFICATION

Product Name: TUFF-POXY #3 PRIMER, PART A (Canada: Flexstone Primer #3, Part A) Product Use: Epoxy Resin Primer

| Manufacturer | Canadian Supplier | Medical Emergency |
|------------------------------|--------------------------------|--|
| TUFFLEX POLYMERS | FLEXSTONE COATINGS INC | CHEMTREC (USA): (800) 424-9300 |
| 10880 Poplar Avenue | 1230 W 75 th Avenue | CHEMTREC (International): (703) 527-3887 |
| Fontana, CA 92337 | Vancouver, BC, V6P3G3 | SDS Assistance: (909) 349-2016 |
| Web: www.tufflexpolymers.com | Web: www.flexstones.ca | Technical Assistance: (909) 349-2016 |
| Fax Number: (909) 823-6309 | Fax: (604) 222-1818 | Customer Service: (888) TUFFLEX |

2. COMPONENT INFORMATION

| Classification (GHS-US) | | Label Elements GHS-US Labeling |
|---------------------------------|---|--|
| Flam. Liq. 2 | H225 | Hazard Pictograms (GHSUS) |
| Flam. Liq. 3 | H226 | |
| STOT SE 3 | H336 | |
| Skin Irrit. 2 | H315 | |
| STOT SE 3 | H335 | |
| Muta. 1B | H340 | |
| Carc. 1A | H350 | · · · · |
| Tox. To Rep. 2 | H361 | |
| STOT RE 1 | H372 | |
| Asp. Tox. 1 | H304 | |
| Aquatic Acute 3 | H400 | |
| Aquatic Chronic 1 | H410 | |
| Aquatic Chronic 2 | H411 | |
| Signal Word (GHS-US) | Danger | |
| Hazard Statements (GHSUS) | H226 - Flai H304 - Ma H315 - Cau H335 - Ma H336 - Ma H340 - Ma | ghly flammable liquid and vapour mmable liquid and vapor by be fatal if swallowed and enters airways uses skin irritation by cause respiratory irritation by cause drowsiness or dizziness by cause genetic defects by cause cancer |

- H361 Suspected of damaging fertility or the unborn child
- H372 Causes damage to organs
- H400 Very toxic to aquatic life
- H410 Very toxic to aquatic life with long lasting effects
- H411 Toxic to aquatic life with long lasting effects



| Precautionary | P201 - Obtain special instructions before use |
|---------------|---|
| Statements | P202 - Do not handle until all safety precautions have been read and understood |
| (GHS-US) | P210 - Keep away from heat, hot surfaces, open flames, sparks No smoking |
| (0115 05) | P233 - Keep container tightly closed |
| | P240 - Ground/bond container and receiving equipment |
| | P241 - Use explosion-proof electrical, lighting, ventilating equipment |
| | P242 - Use only non-sparking tools |
| | P243 - Take precautionary measures against static discharge |
| | P260 - Do not breathe mist. |
| | P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. |
| | P264 - Wash face, hands and any exposed skin thoroughly after handling. |
| | P270 - Do not eat, drink or smoke when using this product. |
| | P271 - Use only outdoors or in a well-ventilated area. |
| | P273 - Avoid release to the environment. |
| | P280 - Wear eye protection, face protection, protective clothing, protective gloves |
| | P281 - Use personal protective equipment as required. |
| | P301+310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. |
| | P302+352 - IF ON SKIN: Wash with plenty of soap and water. |
| | P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. |
| | Rinse skin with water/shower |
| | P304+P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable |
| | for breathing |
| | P308+313 - IF exposed or concerned: Get medical advice/attention. |
| | P312 - Call a POISON CENTER or doctor/physician if you feel unwell. |
| | P314 - Get medical advice/attention if you feel unwell. |
| | P321 - Specific treatment (see supplemental instructions on the administration of antidotes on this |
| | label). |
| | P331 - Do NOT induce vomiting. |
| | P332+313 - If skin irritation occurs: Get medical advice/attention. |
| | P362 - Take off contaminated clothing and wash before reuse. |
| | P370+P378 - In case of fire: Use appropriate media for extinction |
| | P391 - Collect spillage. |
| | P403+P233 - Store in a well-ventilated place. Keep container tightly closed |
| | P403 + P235 - Store in a well-ventilated place. Keep cool. |
| | P403+233 - Store in a well-ventilated place. Keep container tightly closed. |
| | P405 - Store locked up |
| | P501 - Dispose of contents/container according to local, regional, national, and international |
| | regulations |
| | |
| | |

3. COMPONENT INFORMATION

| Hazardous Components | CAS No. | OSHA PEL | ACGIH TLV | MFG TLV | Vapor Pressure mm Hg @ Temp |
|-----------------------------|------------|----------|-----------|---------|--------------------------------|
| Toluene | 108-88-3 | 200 ppm | 50 ppm | | 22.0 @ 68°F |
| Bisphenol A-Epichlorohydrin | 25085-99-8 | N/E | N/E | | |
| Alkyl Glycidyl Ether | 68609-97-2 | N/E | N/E | | |

Information concerning non-hazardous ingredients is considered a trade secret.





4. FIRST AID INFORMATION

- **Eye Contact:** Immediately flush with copious amounts of lukewarm water for at least 15 minutes. Have eyes examined and treated by medical personnel.
- Skin Contact:
 Dry skin with paper towel or similar. Wash affected skin thoroughly with soap and water.

 Immediately remove contaminated clothing. Wash contaminated clothing before reuse. Get medical attention if any discomfort continues. Wash contaminated clothes before reuse.
- Inhalation: Move the exposed person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering 100% oxygen. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.
- Ingestion:If swallowed, Do Not induce vomiting. Give victim a glass of water or milk. Call a physician or
poison control center immediately. Never give anything by mouth to an unconscious person.
Should vomiting occur, be sure to keep victim's head below hips to avoid aspiration of vomitus into
lungs.

5. FIRE FIGHTING MEASURES

Flash Point:45°FLower Explosive Limit: 1.4(Setaflash Closed Cup)Upper Explosive Limit: 7.4Autoignition Temperature: N/DExtinguishing Media: Foam, CO2, Dry Chemical, Water, Fog

Unusual fire and explosion hazards: Fire produces irritating or poisonous gas. Liquid is combustible when hot. Can form explosive mixtures at temperatures at or above the flashpoint. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, OR OTHER SOURCES OF IGNITION; CONTAINERS MAY EXPLODE AND CAUSE INJURY OR DEATH.

Special Firefighting Procedures: Containers exposed to fire should be kept cool with water spray. As in fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear. Water runoff can cause environmental damage. Dike and collect water used to fight fire.

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case material is released or spilled: Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Repeat sorbent/sweep cycle until the spill has dried up. Avoid runoff into storm sewers and ditches which lead to waterways.

7. HANDLING AND STORAGE INFORMATION

Handling:Use only in a well-ventilated area. Keep out of reach of children.Storage:Keep away from heat, sparks and flame. Keep container closed when not in use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION INFORMATION

Engineering Controls: Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product.

Respiratory Protection: Wear NIOSH/MSHA approved respiratory protection when the product is mixed or applied in a poorly ventilated area or if workplace levels of ingredients exceed the TLV. Follow applicable federal, state, and local regulations.

Other Protective Equipment: Where contact is likely, wear chemical resistant gloves, chemical safety goggles with face shield, and clean protective clothing to cover arms and legs to keep exposure to a minimum.





Hygiene Practices: Do not take internally. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid breathing vapors from heated material. Avoid contact with eyes, skin, and clothing.

| EXPOSURE LIMIT | | | | | | |
|-----------------------------|--------------------|------|---------|---------|------|------|
| | ACGIH OSHA COMPANY | | | | | PANY |
| ITEM | TLV- | TLV- | PEL- | PEL- | TLV- | SKIN |
| | TWA | STEL | TWA | CEILING | TWA | |
| Bisphenol A-Epichlorohydrin | N.E. | N.E. | N.E. | N.E. | N.E. | NO |
| Toluene | 100 ppm | N.E. | 100 ppm | N.E. | N.E. | NO |
| Alkyl Glycidyl Ether | N.E. | N.E. | N.E. | N.E. | N.E. | N.E. |

9. PHYSICAL AND CHEMICAL PROPERTIES

| Appearance: Clear thin liquid | Octanol/Water Coefficient: Log Kow = NA | |
|---------------------------------|---|--|
| Odor: Typical solvent odor | Vapor Pressure: 22 mm Hg @ 20°C | |
| Physical state: Thin liquid | Vapor Density (air=1): > air | |
| PH: Not applicable | Percent Volatile by Volume: 10-12% | |
| DOT Corrosivity: Not applicable | Volatile Organic Content: A+B Mixture @100 gm/l | |
| Boiling Point: 230-232° F | Molecular Weight: N/A | |
| Melting Point: NA | Average Carbon Number: NA | |
| Specific Gravity: 1.08 | Viscosity @ 100F: NA | |
| Pour Point: NA | Viscosity@ 40C: NA | |
| | | |

Solubility in Water: slightly soluble in water

10. STABILITY AND REACTIVITY INFORMATION

Conditions to Avoid: Long tern exposure to elevated temperatures. Incompatible: Strong bases or oxidants. Strong Lewis or mineral acids. Hazardous decomposition products: Poisonous & acrid fumes released on burning. Acrid fumes. Oxides of carbon. Stability: This product is stable under normal storage conditions.

11. TOXICOLOGICAL INFORMATION

 Primary Eye Irritation:
 Irritating

 Primary Skin Irritation:
 Irritating

 Acute Dermal Toxicity:
 NA

 Subacute Dermal Toxicity:
 NA

 Dermal Sensitization:
 NA

 Inhalation Toxicity:
 Product toxicity has not been determined. Following are LC₅₀ component data:

 Toluene:
 Rat>26,000 ppm 1 hr; Mouse 400 ppm 24 hr

 Inhalation Sensitization:
 NA

 Oral Toxicity:
 Product toxicity has not been determined. Following are component data:

 Toluene:
 Rat 5,000 mg/kg

 Reproductive Toxicity:
 NA | Teratogenicity:

 NA | Teratogenicity:
 NA | Meurotoxicity:

No other toxicological information available





12. ECOLOGICAL INFORMATION

| Aquatic Toxicity: | Not known. |
|------------------------------|------------|
| Terrestrial Toxicity: | Not known |
| Chemical Fate and Transport: | Not known. |

No other ecological information available

13. DISPOSAL INFORMATION

Regulatory Information: Consult all regulations (federal, state, provincial, local etc.) or a qualified waste disposal firm when characterizing waste for disposal.

Waste Disposal Methods: Review all local, state and federal regulations concerning health and pollution for appropriate disposal procedures.

14. TRANSPORTATION INFORMATION

U.S. Department of Transportation (DOT) Highway/Rail (Bulk): Flammable liquid Highway/Rail (Non-Bulk): Flammable Liquid, PGII, UN 1263 The DOT description is provided to assist in the proper shipping classification of this product and may not be suitable for all shipping descriptions.

| International Information | | |
|---------------------------------------|-----------|--------------------|
| Vessel: IMDG Regulated: | Class 3.2 | IMDG Not Regulated |
| Air: ICAO Regulated: | Class 3 | ICAO Not Regulated |
| Other: No other information available | | |

15. REGULATORY INFORMATION

Regulatory Lists

U.S. TSCA Inventory: All components of this material are on the US TSCA Inventory or exempt from listing on the TSCA Inventory. SARA 311/312 Categories

| Acute: | Yes | Chronic: | Yes | Fire: | Yes | Pressure: | Yes | Reactive: | Yes |
|--------|-----|----------|-----|-------|-----|-----------|-----|-----------|-----|
|--------|-----|----------|-----|-------|-----|-----------|-----|-----------|-----|

Sara Section 313: This product contains the following Sara, Title III, Section 313 Chemicals:

| Chemical | CAS Number | Percent in Product |
|----------|------------|--------------------|
| Toluene | 108-88-3 | 15-25 |

Regulatory Lists Searched

| Health & Safety: | NA |
|-----------------------|--------------------|
| Environmental: | NA |
| International: | NA |
| State: | FI, MA, MN, PA, RI |
| National Inventories: | NA |

California Proposition 65 Information:

Warning! This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

| Chemical | CAS Number | Percent in Product |
|----------|------------|--------------------|
| Toluene | 108-88-3 | 10-15 |





Canadian WHMIS Classification Class: B Division: 2

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations (CPR). This MSDS contains all the information required by the CPR. **Other Regulations:** No other information available.

16. OTHER INFORMATION

Health and Environmental Label Language

All ingredients contained in this product are included on the US EPA Toxic Substances Control Act (TSCA) inventory or exempt from listing on the TSCA inventory. All ingredients contained in this product comply with the requirements of the Canadian Environmental Protection Act (CEPA) and are listed on the Domestic Substance List (DSL) or Non-Domestic Substance List (NDSL)

HMIS ratings - Health: <u>2</u> Flammability: <u>3</u> Reactivity: <u>1</u> Personal Protection: <u>C</u>

DISCLAIMER: The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results and assume no liability for damages incurred by use of this material. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or any other nature are made hereunder with respect to the information contained herein or the chemical to which the information refers. It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations. This data and information is furnished upon the condition that the person receiving it shall make his own determination of the conditions for safe use of this product.

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

MSDS Revisions Previous Version Date: 01/03/11 Revision Date: 05/22/15





SAFETY DATA SHEET

1. PRODUCTS AND COMPANY IDENTIFICATION

Product Name: TUFF-POXY #3 PRIMER, PART B (Canada: Flexstone Primer, Part B) Product Use: Epoxy Resin Hardener

| Manufacturer | Canadian Supplier | Medical Emergency |
|------------------------------|--------------------------------|--|
| TUFFLEX POLYMERS | FLEXSTONE COATINGS INC | CHEMTREC (USA): (800) 424-9300 |
| 10880 Poplar Avenue | 1230 W 75 th Avenue | CHEMTREC (International): (703) 527-3887 |
| Fontana, CA 92337 | Vancouver, BC, V6P3G3 | SDS Assistance: (909) 349-2016 |
| Web: www.tufflexpolymers.com | Web: www.flexstones.ca | Technical Assistance: (909) 349-2016 |
| Fax Number: (909) 823-6309 | Fax: (604) 222-1818 | Customer Service: (888) TUFFLEX |

2. COMPONENT INFORMATION

| Classification (GHS-US) | Flam. Liq. 2 H225 Flam. Liq. 3 H226 STOT SE 3 H336 Skin Irrit. 2 H315 STOT SE 3 H335 Muta. 1B H340 Carc. 1A H350 Tox. To Rep. 2 H361 STOT RE 1 H372 Asp. Tox. 1 H304 Aquatic Acute 3 H400 Aquatic Chronic 1 H410 Aquatic Chronic 2 H411 | Label Elements GHS-US Labeling Hazard Pictograms (GHSUS) |
|---------------------------------|--|--|
| Signal Word (GHS-US) | : Danger | |
| Hazard Statements (GHSUS) | H225 - Highly flammable liquid and vapour H226 - Flammable liquid and vapor H304 - May be fatal if swallowed and enters airways H315 - Causes skin irritation H335 - May cause respiratory irritation H336 - May cause drowsiness or dizziness H340 - May cause genetic defects H350 - May cause cancer H361 - Suspected of damaging fertility or the unborn child H372 - Causes damage to organs H400 - Very toxic to aquatic life H410 - Very toxic to aquatic life with long lasting effects H411 - Toxic to aquatic life with long lasting effects | |





| Precautionary | P201 - Obtain special instructions before use |
|---------------|--|
| statements | P202 - Do not handle until all safety precautions have been read and understood |
| GHS-US) | P210 - Keep away from heat, hot surfaces, open flames, sparks No smoking |
| 313-03) | P233 - Keep container tightly closed |
| | P240 - Ground/bond container and receiving equipment |
| | P241 - Use explosion-proof electrical, lighting, ventilating equipment |
| | P242 - Use only non-sparking tools |
| | P243 - Take precautionary measures against static discharge |
| | P260 - Do not breathe mist. |
| | P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. |
| | P264 - Wash face, hands and any exposed skin thoroughly after handling. |
| | P270 - Do not eat, drink or smoke when using this product. |
| | P271 - Use only outdoors or in a well-ventilated area. |
| | P273 - Avoid release to the environment. |
| | P280 - Wear eye protection, face protection, protective clothing, protective gloves |
| | P281 - Use personal protective equipment as required. |
| | P301+310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. |
| | P302+352 - IF ON SKIN: Wash with plenty of soap and water. |
| | P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated |
| | clothing. Rinse skin with water/shower |
| | P304+P340 - IF INHALED: Remove person to fresh air and keep at rest in a position |
| | comfortable for breathing |
| | P308+313 - IF exposed or concerned: Get medical advice/attention. |
| | P312 - Call a POISON CENTER or doctor/physician if you feel unwell. |
| | P314 - Get medical advice/attention if you feel unwell. |
| | P321 - Specific treatment (see supplemental instructions on the administration of antidotes o |
| | this label). |
| | P331 - Do NOT induce vomiting. |
| | P332+313 - If skin irritation occurs: Get medical advice/attention. |
| | P362 - Take off contaminated clothing and wash before reuse. |
| | P370+P378 - In case of fire: Use appropriate media for extinction |
| | P391 - Collect spillage. |
| | P403+P233 - Store in a well-ventilated place. Keep container tightly closed |
| | P403 + P235 - Store in a well-ventilated place. Keep cool. |
| | P403+233 - Store in a well-ventilated place. Keep container tightly closed. |
| | P405 - Store locked up |
| | P501 - Dispose of contents/container according to local, regional, national, and international |
| | regulations |

3. COMPONENT INFORMATION

| Hazardous Components | CAS No. | OSHA PEL | ACGIH TLV | MFG TLV | Vapor Pressure mm Hg @ Temp |
|--|-----------------|----------|-----------|---------|--------------------------------|
| Modified Polyethylenepolyamine Adduct | Trade Secret | N/E | N/E | | |
| Nonylphenol | 251-52-3 | N/E | N/E | | |
| Aliphatic Ether Polyamines | 9046-10-0 | N/E | N/E | | |

*Indicates toxic chemicals subject to the reporting requirements of section 313 of Title III and of 40 CFR 372. Information concerning non-hazardous ingredients is considered a trade secret.





4. FIRST AID INFORMATION

| Eye Contact: | Immediately flush with copious amounts of lukewarm water for at least 15 minutes. Have eyes examined and treated by medical personnel. |
|---------------|--|
| Skin Contact: | Dry skin with paper towel or similar. Wash affected skin thoroughly with soap and water. Immediately remove contaminated clothing. Wash contaminated clothing before reuse. Get medical attention if any discomfort continues. Wash contaminated clothes before reuse. |
| Inhalation: | Move the exposed person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering 100% oxygen. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention. |
| Ingestion: | If swallowed, Do Not induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Should vomiting occur, be sure to keep victim's head below hips to avoid aspiration of vomitus into lungs. |

5. FIRE FIGHTING MEASURES

Flash Point:213°FLower Explosive Limit: N/A(Setaflash Closed Cup)Upper Explosive Limit: N/AAutoignition Temperature: N/DExtinguishing Media: Foam, CO2, Dry Chemical, Water, Fog

Unusual fire and explosion hazards: Fire produces irritating or poisonous gas. Liquid is combustible when hot. Can form explosive mixtures at temperatures at or above the flashpoint. "Empty" containers retain product residue (liquid an/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, OR OTHER SOURCES OF IGNITION; CONTAINERS MAY EXPLODE AND CAUSE INJURY OR DEATH.

Special Firefighting Procedures: Containers exposed to fire should be kept cool with water spray. As in fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear. Water runoff can cause environmental damage. Dike and collect water used to fight fire.

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case material is released or spilled: Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Repeat sorbent/sweep cycle until the spill has dried up. Avoid runoff into storm sewers and ditches which lead to waterways.

7. HANDLING AND STORAGE INFORMATION

Handling:Use only in a well-ventilated area. Keep out of reach of children.Storage:Keep away from heat, sparks and flame. Keep container closed when not in use.





8. EXPOSURE CONTROLS/PERSONAL PROTECTION INFORMATION

Engineering Controls: Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product.

Respiratory Protection: Wear NIOSH/MSHA approved respiratory protection when the product is mixed or applied in a poorly ventilated area or if workplace levels of ingredients exceed the TLV. Follow applicable federal, state, and local regulations.

Other Protective Equipment: Where contact is likely, wear chemical resistant gloves, chemical safety goggles with face shield, and clean protective clothing to cover arms and legs to keep exposure to a minimum.

Hygiene Practices: Do not take internally. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid breathing vapors from heated material. Avoid contact with eyes, skin, and clothing.

| EXPOSURE LIMIT | | | | | | |
|---------------------------------------|------|------|------|---------|------|------|
| | AC | CGIH | OS | SHA | COM | PANY |
| ITEM | TLV- | TLV- | PEL- | PEL- | TLV- | SKIN |
| | TWA | STEL | TWA | CEILING | TWA | |
| Modified Polyethylenepolyamine Adduct | N.E. | N.E. | N.E. | N.E. | N.E. | NO |
| Nonylphenol | N.E | N.E | N.E | N.E. | N.E. | NO |
| Aliphatic Ether Polyamines | N.E | N.E. | N.E | N.E. | N.E. | NO |

9. PHYSICAL AND CHEMICAL PROPERTIES

| Appearance: Liquid | Octanol/Water Coefficient: Log Kow = NA |
|----------------------------------|---|
| Odor: NA | Vapor Pressure: 1 mm Hg @ 20°C |
| Physical state: Liquid | Vapor Density (air=1):> air |
| PH: Not applicable | Percent Volatile by Volume: NA |
| DOT Corrosivity: Not applicable | Volatile Organic Content: NA |
| Boiling Point: 230-232° F | Molecular Weight: NA |
| Melting Point: NA | Average Carbon Number: NA |
| Specific Gravity: 0.9759 | Viscosity @ 100F: NA |
| Pour Point: NA | Viscosity@ 40C: NA |
| Solubility in Water: Appreciable | |

10. STABILITY AND REACTIVITY INFORMATION

Conditions to Avoid: Long tern exposure to elevated temperatures.
Incompatible: Strong bases or oxidants. Strong Lewis or mineral acids.
Hazardous decomposition products: Poisonous & acrid fumes released on burning. Acrid fumes. Oxides of carbon.
Stability: This product is stable under normal storage conditions.

11. TOXICOLOGICAL INFORMATION (will only print available data)

Product Demal LD50: No Information Product Oral LD50: No information Product

LC50: No Information

COMPONENT TOXOLOGY INFORMATION:

| CHEMICAL NAME | DEMAL LD 50 | ORAL LD 50 | LC 50 |
|-------------------------------|-------------|------------|----------------|
| Polyethylene Polyamine Adduct | N/D | N/D | No Information |
| Nonylphenol | 2.14 g/kg | 0.58 g/kg | No Information |
| Aliphatic Ether Polyamines | 2.98 g/kg | 2.88 g/kg | No Information |





12. ECOLOGICAL INFORMATION

| Aquatic Toxicity: | Not known. |
|------------------------------|--|
| Terrestrial Toxicity: | Not known |
| Chemical Fate and Transport: | Not known. |
| Ecological information: | Toxic to fish and other water organisms. |

13. DISPOSAL INFORMATION

Regulatory Information: Consult all regulations (federal, state, provincial, local etc.) or a qualified waste disposal firm when characterizing waste for disposal.

Waste Disposal Methods: Review all local, state and federal regulations concerning health and pollution for appropriate disposal procedures.

14. TRANSPORTATION INFORMATION

| DOT Proper Shipping Name: Corrosive Liquid, N | 1.O.S. | | |
|--|---------------------------|-------------------|--|
| DOT Technical Name: Nonlyphenol and Amino | Ethyl Piperazine | | |
| DOT Hazard Class: Corrosive Liquid | Hazard Subclass: N/A DOT | | |
| Placard AT: 1000 lbs | | | |
| DOT UN/NA Number: UN 1760 | Pacing Group: III | Resp. Guide Page: | |
| DOT Hazardous Class: 8 | | | |
| UN Proper Shipping Name: Corrosive Liquid, N.O.S. (nonylphenol and Amino Ethyl Piperazine) | | | |
| UN Hazard Class: Corrosive Liquid | | | |
| UN Class Number: Air 8 | Marine: 8 | | |
| Hazard Subclass: Air N/A | Marine: N/A | | |
| UN UN/NA Number: UN 1760 | UN Packing Group: Air III | Marine: III | |
| UN Placard AT: N/A | | | |

15. REGULATORY INFORMATION

U.S. Federal Regulations: As followsOSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)
CERCLA - SARA HAZARD CATEGORY:
This product has been reviewed according to the EPA ' Hazard Categories' promulgated under Section 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:
Immediate Health Hazard
Chronic Health Hazard

Sara Section 313: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

| Chemical | CAS Number |
|----------|------------|
| None | |

Toxic Substances Control Act:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12 (B) if exported from the United States:

| Chemical | CAS Number |
|----------|------------|
| None | |





California Proposition 65:

The following detectable components of this product are substances, or belong to classes of substances, known to the State of California to cause cancer and/or reproductive toxicity.

| Chemical | CAS Number |
|----------|------------|
| None | |

International Regulations: as follows -

Canadian WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations Except for use of the 16 headings.

Canadian WHMIS Class: No Information available.

16. OTHER INFORMATION

Health and Environmental Label Language

All ingredients contained in this product are included on the US EPA Toxic Substances Control Act (TSCA) inventory or exempt from listing on the TSCA inventory. All ingredients contained in this product comply with the requirements of the Canadian Environmental Protection Act (CEPA) and are listed on the Domestic Substance List (DSL) or Non-Domestic Substance List (NDSL)

HMIS ratings – Health: <u>2</u> Flammability: <u>1</u> Reactivity: <u>0</u> Personal Protection: <u>G</u>

DISCLAIMER: The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results and assume no liability for damages incurred by use of this material. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or any other nature are made hereunder with respect to the information contained herein or the chemical to which the information refers. It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations. This data and information is furnished upon the condition that the person receiving it shall make his own determination of the conditions for safe use of this product.

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

MSDS Revisions Previous Version Date: 01/03/11 Revision Date: 05/22/15