

MATERIAL SAFETY DATA SHEET

Trade Name: AquataPoxy A-6SF (SuperFlex) - Part A

SECTION I: COMPANY IDENTIFICATION

Company: Raven Lining Systems
13105 East 61st Street South, Suite A
Broken Arrow, OK 74012

Emergency Telephone #: 800-424-9300
Chemtrec

Revision Date: 8/20/09

Information Telephone #: 918-615-0020
800-324-2810

SECTION II: INGREDIENT INFORMATION

<u>INGREDIENT</u>	<u>CAS NUMBER</u>	<u>PERCENT</u>	<u>PEL</u>	<u>TLV</u>
Epoxy Resin	25085-99-8	30 - 50%	N/E	N/E
Polyfunctional Glycidyl Ether Modifier	74398-71-3	10 - 20%	N/E	N/E
Amorphous Silicon Dioxide	7631-86-9	30 - 50%	*80 mg/m ³	*3 mg/m ³ (inhalable)
Titanium Dioxide	13463-67-7	5 - 15%	*15 mg/m ³	*10 mg/m ³
Silica, Amorphous, Fumed, Crystalline-free	67762-90-7	0 - 5%	*6 mg/m ³	*3 mg/m ³

N/E indicates "not established"

SARA Title III, Section 313 ingredients: None

All ingredients are TSCA inventory listed.

*Note: The PEL and TLV for this ingredient are the TWA for respirable dust levels only. In this product, it is pre-dispersed and not available as a dust. Therefore, under normal use conditions it is not considered a hazard.

SECTION III: PHYSICAL DATA

Boiling Point: > 200 deg F

Vapor Pressure: Not determined

Vapor Density: Not determined

Solubility in Water: Negligible

Appearance and Odor: Heavy paint consistency - faint epoxy odor

Specific Gravity: 1.3 - 1.5

Melting Point: Not determined

Evaporation Rate: Not determined

% Volatile by Volume: <1%

SECTION IV: FIRE & EXPLOSION HAZARD DATA

Flash Point: >200 deg F

Extinguishing Media: Foam, CO₂, Dry Chemical, Water Spray

Special Fire Fighting Procedures: The use of self-contained breathing apparatus is recommended for firefighters. Water may be helpful in keeping adjacent containers cool. Avoid spreading burning liquid with water used for cooling purposes.

Unusual Fire and Explosion Hazards: Keep work areas free of hot metal surfaces and other sources of ignition.

NFPA classification: Health: 2 Flammability: 1 Reactivity: 0

OSHA/NFPA Flammability Classification: Class III B

LFL: Not determined **UFL:** Not determined

SECTION V: REACTIVITY DATA

Stability: Stable

Incompatibility: Strong acids and bases, selected amines, oxidizing agents.

Hazardous Decomposition or Byproducts: Thermal decomposition in the presence of air may yield carbon monoxide, carbon dioxide, phenolics, acids, aldehydes, ketones and other unidentified toxic and/or irritating compounds.

Hazardous Polymerization: Will not occur.

SECTION VI: HEALTH HAZARD DATA

Primary Routes of Entry:

EYES: May cause slight transient (temporary) eye irritation. Corneal injury is unlikely.

SKIN: May cause allergic skin reaction in susceptible individuals. Prolonged exposure not likely to cause significant skin irritation. Repeated exposure may cause skin irritation. A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts.

INHALATION: Vapors are unlikely due to physical properties.

INGESTION: Single dose oral toxicity is low. No hazards anticipated from ingestion incidental to industrial exposure.

SYSTEMIC and OTHER EFFECTS: Except for skin sensitization, repeated exposures to low molecular weight epoxy resins of this type are not anticipated to cause any significant adverse effects.

Carcinogenicity: Contains no ingredient listed as a potential carcinogen or as a carcinogen per OSHA, ACGIH, NTP or IARC at concentrations equal to or greater than 0.1%.

Emergency and First Aid Procedures:

EYES: Flush with large quantities of water for at least 15 minutes. Consult a physician.

SKIN: Wash thoroughly with soap and flowing water.

INHALATION: Remove to fresh air if effects occur. Consult a physician.

INGESTION: No adverse effects anticipated by this route of exposure incidental to proper industrial handling.

SECTION VII: PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken in Case Material is Released or Spilled: Keep sources of ignition and hot metal surfaces isolated from the spill. Material may flow slowly. Scrape into containers for disposal.

Waste Disposal Methods: Dispose of according to all local, state and federal regulations.

Precautions to Be Taken in Handling and Storing: Keep containers closed when not in use. Avoid prolonged or repeated contact with skin. Do not handle or store near flame, heat or strong oxidants. Do not store in direct sunlight. Avoid prolonged storage above 38 deg C (100 deg F).

SECTION VIII: CONTROL MEASURES

RESPIRATORY: Respiratory protection should not be needed. If exposure may or does exceed occupational exposure limits, respiratory irritation is experienced, or during spray application, use a properly fitted MSHA/NIOSH approved respirator fitted with organic vapor cartridges. In addition, spray application may require the use of paint pre-filters. If sanding or grinding on cured material, use above respirator fitted with HEPA filters or a dust mask.

VENTILATION: General mechanical ventilation is sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

EYES: Use safety glasses, splash-proof eye goggles or goggles with full faceshield.

CLOTHING/GLOVES: Use impermeable gloves to prevent skin irritation in sensitive individuals. Wear clean, long-sleeved, body covering clothing.

OTHER PROTECTIVE EQUIPMENT: The availability of eye washes and safety showers in work areas is recommended.

SECTION IX: TRANSPORT DATA

Proper Shipping Name: Not regulated

Hazard Class: Not regulated by D.O.T. regulations

Identification Number: None

Packing Group: None

SECTION X: DISCLAIMER

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MATERIAL SAFETY DATA SHEET

Trade Name: AquataPoxy A-6SF (SuperFlex) - Part B

SECTION I: COMPANY IDENTIFICATION

Company: Raven Lining Systems
13105 East 61st Street South, Suite A
Broken Arrow, OK 74012

Emergency Telephone #: 800-424-9300
Chemtrec

Revision Date: 8/20/09

Information Telephone #: 918-615-0020
800-324-2810

SECTION II: INGREDIENT INFORMATION

<u>INGREDIENT</u>	<u>CAS NUMBER</u>	<u>PERCENT</u>	<u>PEL</u>	<u>TLV</u>
Cycloaliphatic Amine		15 - 30%	N/E	N/E
Benzyl Alcohol	100-51-6	15 - 25%	N/E	N/E
Aliphatic Amine	1477-55-0	10 - 20%	N/E	0.1 mg/m ³ skin
Amorphous Silicon Dioxide	7631-86-9	30 - 50%	*80 mg/m ³	*3 mg/m ³ (inhalable)
Silica, Amorphous, Fumed, Crystalline-free	67762-90-7	0 - 5%	*6 mg/m ³	*3 mg/m ³

N/E indicates "not established"

SARA Title III, Section 313 ingredients: None

All ingredients are TSCA inventory listed.

*Note: The PEL and TLV for this ingredient are the TWA for respirable dust levels only. In this product, it is pre-dispersed and not available as a dust. Therefore, under normal use conditions it is not considered a hazard.

SECTION III: PHYSICAL DATA

Boiling Point: > 200 deg F

Specific Gravity: 1.4 - 1.5

Vapor Pressure: Not Determined

Melting Point: Not Determined

Vapor Density: Not Determined

Evaporation Rate: Not Determined

Solubility in Water: Negligible

% Volatile by Volume: <1%

Appearance and Odor: Medium paint consistency – slight ammonia odor

SECTION IV: FIRE & EXPLOSION HAZARD DATA

Flash Point: >200 deg F, TCC Method

OSHA/NFPA Fire Hazard Classification: Class III B

Extinguishing Media: Foam, CO₂, Dry Chemical, Water Spray

LFL: Not Determined

UFL: Not Determined

Special Fire Fighting Procedures: The use of self-contained breathing apparatus is recommended for firefighters.

Water may be helpful in keeping adjacent containers cool.

Unusual Fire and Explosion Hazards: Keep work areas free of hot metal surfaces and other source of ignition.

NFPA classification:

Health: 3

Flammability: 1

Reactivity: 0

SECTION V: REACTIVITY DATA

Stability: Stable

Incompatibility: Strong acids and bases, selected epoxy resins and strong oxidizing agents.

Hazardous Decomposition or Byproducts: Thermal decomposition in the presence of air may yield carbon monoxide, carbon dioxide, ammonia, nitrogen oxides and other unidentified toxic and/or irritating compounds.

Hazardous Polymerization: Will not occur.

SECTION VI: HEALTH HAZARD DATA

Primary Routes of Entry:

EYES: Severe eye irritant. May cause burns. Vapors may be irritating.

SKIN: Severe skin irritant. May cause injury to skin following prolonged or repeated contact. Repeated exposure may cause sensitization of the individual.

INHALATION: Vapors/mists may be corrosive to the upper respiratory tract. Repeated or prolonged exposure can result in lung damage. May cause respiratory tract sensitization.

INGESTION: Not expected to be a relevant route of exposure. However, the material is corrosive and may cause permanent damage to the mouth, throat and stomach.

SYSTEMIC and OTHER EFFECTS: Product can be alkaline, corrosive and irritating to skin, ears, eyes and mucous membranes. May cause injury upon prolonged contact and repeated contact.

Carcinogenicity: Contains no ingredient listed as a potential carcinogen or as a carcinogen per OSHA, ACGIH, NTP or IARC at concentrations equal to or greater than 0.1%.

Emergency and First Aid Procedures:

EYES: Flush with large quantities of water for at least 15 minutes. Seek immediate medical attention.

SKIN: Wash immediately with soap and water. If irritation or sensitization occurs, remove individual from further contact with material. Remove and wash contaminated clothing before reuse.

INHALATION: Remove to fresh air if effects occur. Consult a physician.

INGESTION: If this product is swallowed, administer 3-4 glasses of milk or water. Do not induce vomiting. Seek medical advice.

SECTION VII: PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken in Case Material is Released or Spilled: Keep sources of ignition and hot metal surfaces isolated from the spill. Material may flow slowly. Scrape into containers for disposal.

Waste Disposal Methods: Dispose of according to all local, state and federal regulations.

Precautions to Be Taken in Handling and Storing: Keep containers closed when not in use. Avoid breathing vapors and prolonged or repeated contact with skin. DO NOT handle or store near flame, heat or strong oxidants. Do not store in direct sunlight. Avoid prolonged storage above 38 deg C (100 deg F).

SECTION VIII: CONTROL MEASURES

RESPIRATORY: Respiratory protection should not be needed. If exposure may or does exceed occupational exposure limits, respiratory irritation is experienced, or during spray application, use a properly fitted MSHA/NIOSH approved respirator fitted with ammonia & methylamine cartridges. In addition, spray application may require the use of paint pre-filters. If sanding or grinding on cured material, use above respirator fitted with HEPA filters or a dust mask.

VENTILATION: General mechanical ventilation is sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

EYES: Use chemical safety glasses, splash-proof eye goggles or goggles with full faceshield.

CLOTHING/GLOVES: Use nitrile or other chemical resistant gloves. Wear clean, long-sleeved, body covering clothing and rubber boots.

OTHER PROTECTIVE EQUIPMENT: The availability of eye washes and safety showers in work areas is recommended.

SECTION IX: TRANSPORT DATA

Proper Shipping Name: Amines, liquid, corrosive, n.o.s. (modified cycloaliphatic amine)

Hazard Class: Corrosive Material - 8

Identification Number: UN 2735

Packing Group: III

SECTION X: DISCLAIMER

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