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SAFETY DATA SHEET

AquaWrap™ (G01, G03, G05 and G22 BEAR Fabrics-All Colors)

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: AquaWrap™ (G01, G03, G05, G22 Fabrics-All Colors)
MFR'S NAME: Air Logistics Corporation, 925 North Todd Avenue, Azusa CA 91702
EMERGENCY PHONE: 800.424.9300 (CHEMTREC) **GENERAL INFORMATION**: 626.633.0294
USE OF THE SUBSTANCE: A composite system with a resin and various weights of fiberglass fabric for the repair of pipelines or other structures. Information below, except as noted, relates to the resin component of the product.

SECTION 2: HAZARDS IDENTIFICATION

OSHA/HCS status: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

GHS Label Elements:
Hazard Pictograms:


Signal Word: Warning! Danger!

Hazard Statements and GHS Classifications:

H315, H319	Causes skin and eye irritation.	Category 2
H317	May cause an allergic skin reaction.	Category 1
H334	May cause allergy or asthma symptoms if inhaled.	Category 1
H332	Harmful if inhaled.	Category 4
H335	May cause respiratory irritation.	Category 3
H373	May damage organs through repeated exposure.	Category 2
H351	Suspected of causing cancer (by inhalation).	Category 2

Precautionary Statements:

Prevention:
P260: Do not breathe dust, fumes, mist, vapors and spray.
P264: Wash hands 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 protective gloves, clothing, and eye/face protection.

Responses:
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P333+P313: If skin irritation or rash occurs, get medical attention.
P362+P364: Take off contaminated clothing and wash it before reuse.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.
P308+P313: If exposed or concerned, get medical attention.
P391: Collect spillage.

Storage: P403+P233: Store in a well-ventilated place. Keep containers tightly closed.
P405: Store in a secured area.

Disposal: P501: Dispose of contents and containers in accordance with all local, regional and international regulations.

Other Hazards: None known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture.

Ingredient	% by WT	CAS #	67/548/EEC	Regulation (EC) 1272/2008 (CLP)
Fiberglass Fabric	>60%	65997-17-3	Not classified	Not classified
Polyisocyanate (based on MDI)	<26%	67815-87-6	See GHS Classifications above.	
Diphenylmethane- diisocyanate, isomers and homologues	<8%	9016-87-9		
Chopped Fiberglass	<2%	65997-17-3	Not classified	Not classified
Titanium Dioxide	<1.5%	13463-67-7	Not classified	Not classified

Occupational Exposure Limits, if available, are listed in Section 8.

SECTION 4: FIRST AID MEASURES

Description of necessary first aid measures:

General Get medical attention immediately for any person who is having trouble or not breathing, or any unconscious person. Provide oxygen or artificial respiration to a person if they have trouble breathing. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Place an unconscious person in a recovery position, maintain an open airway and loosen tight clothing.

Inhalation Remove victim to fresh air and keep warm and at rest in a position comfortable for breathing. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Skin Contact Immediately remove contaminated clothing and shoes. Wash the affected area with plenty of soap and water until no evidence of the chemical remains (at least 15-20 minutes). Launder clothing before reuse. Get medical attention if symptoms occur. Soiled or soaked clothing or footwear should be soaked with water until material cures and disposed of. Cured material is NOT hazardous.

Eye Contact Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids and roll eyes in a circular motion. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes. Get medical attention.

Ingestion Wash out mouth with water. Remove dentures, if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. DO NOT induce vomiting. If person is conscious, give small amounts of water unless they feel sick. Get medical attention.

Most Important Symptoms/Effects, Acute and Long –Term:

Potential Acute Health Effects:

Inhalation Exposure to decomposition products may cause a health hazard. Serious effects may be delayed after exposure. Harmful if inhaled in high airborne concentrations.

Skin Contact Dust from this product may cause mechanical irritation.

Eye Contact Dust from this product may cause mechanical irritation.

Ingestion Although ingestion is unlikely to occur, it may cause illness or irritation of the mouth, throat and/or gastrointestinal tract.

Overexposure Signs/Symptoms:

Inhalation Respiratory tract irritation, coughing, wheezing, breathing difficulty or asthmatic reaction.

Skin Contact Irritation and/or Redness.

Eye Contact Pain or Irritation. Watering. Redness.

Ingestion No further data.

Indication of Immediate Medical Attention and/or Special Treatment needed:

Notes to Physician Treat symptomatically. In case of inhalation of decomposition products in a fire, symptoms may be delayed. Contact poison treatment center immediately if large quantities have been ingested or inhaled. The exposed person may need to be under medical surveillance for up to 48 hours.

Specific Treatments No specific treatment(s).

See also Toxicological Information in Section 11.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing Media Dry chemicals, water spray, foam or carbon dioxide. Spray containers with water to keep cool and avoid rupture due to pressure buildup.

Unsuitable Media High pressure water jet.

Specific Hazards Burning releases oxides of of carbon and nitrogen, isocyanate vapors and traces of hydrogen cyanide. Fiberglass fabric will not burn but may smoke. See also **Section 10.**

National Fire Protection Association (USA):

Labeling: No data available.

Hazardous Thermal Decomposition Products

Irritating or toxic substances may be emitted upon burning or decomposition, as above. See **Section 10** for additional information.

Special Protective Actions for Fire Fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Fire water runoff should be contained and not discharged into sewers, drains or the soil. Material will not support combustion.

Special Protective Equipment for Fire Fighters

Fire Fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in a positive pressure mode during the attack phase of firefighting operations.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures
Keep unauthorized persons away. Provide adequate ventilation and avoid breathing vapors. Put on appropriate personal protective equipment (see **Section 8**). If spilled in an enclosed area, ventilate area or use SCBA.

Environmental Precautions
Avoid dispersal of material and runoff from contact with soil, waterways, drains and/or sewers.

Methods and Materials for Containment and Cleaning Up (Small or Large Spill)
Stop leak if possible without risk. Move containers from spill area. Absorb spilled material with vermiculite, dry sand or earth, put into containers and dispose of via a licensed waste disposal contractor if material has not cured. If possible, soak materials with water and allow material to cure while lightly covered. Cover any remaining material with wet, absorbent material. Allow to sit about one hour. Transfer absorbent to containers and cover lightly (evolution of CO2). Do not allow runoff into sewers or water sources. Cured material is non-hazardous. Decontamination solution (if required): 8-10% sodium carbonate and 2% liquid soap mixed in water.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling/Personal Hygiene
Use appropriate personal protective equipment as per **Section 8**. Keep in the original container or an approved alternative; keep containers tightly closed when not in use. Do not reuse containers.

Eating, drinking and/or smoking should be prohibited where this material is being used. Workers should remove contaminated clothing/protective equipment and wash hands and face and before entering eating areas and eating, drinking and/or smoking.

Conditions for Safe Storage, including any Incompatibilities
Store in sealed original containers, or approved alternatives, when not in use in a dry, well-ventilated area. Protect containers from direct sunlight in a dry, cool and well ventilated area. Do not allow to freeze or exceed 40^0C (~110^0F). Do not open individual foil packages prematurely as the material will cure due to ambient humidity. Do not reuse containers.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Occupational Exposure Limits

Ingredient	CAS#	Exposure Limits (ACGIH-TWA or ACGIH-STEL)
Fiberglass Cloth	65997-17-3	No data available.
Polyisocyanate (based on MDI)	67815-87-6	TWA: 5 mg/m^3 (8 hours). IDLH Level: 10 mg/m^3. Mean MDI exposures of less than 0.003 ppm appear to have no chronic or acute effect on pulmonary function.
Diphenylmethane- diisocyanate, isomers and homologues	9016-87-9	STEL: 0.07 mg/m^3 (as NCO, 15 minutes) TWA: 0.02 mg/m^3 (as NCO, 8 hours)
Chopped Fiberglass	65997-17-3	OSHA PEL: 15 mg/m^3 ACGIH-TWA: 5 mg/m^3
Titanium Dioxide	13463-67-7	15 mg/m^3

Appropriate Engineering Controls
Good general ventilation should be sufficient to control worker exposure to any airborne contaminants. If working in enclosed spaces, provide additional local ventilation. Eyewash fountains and safety showers are recommended, as well as good laboratory procedures and care.

Exposure controls

Respiratory Protection
If necessary, a properly-fitted vapor mask/respirator complying with an approved standard or SCBA should be used.

Hand Protection
Chemical-resistant(impervious) gloves (such as nitrile rubber of .35mm thickness or similar) should be worn when handling this material. Contaminated gloves should be disposed of properly.

Body Protection
Chemically resistant long-sleeved shirts and long pants or lab coats are recommended. Contaminated clothing should be washed separately from other clothes before reuse. Footwear appropriate for the work being performed should be worn and cleaned carefully if contaminated, before reuse.

Eye/Face Protection
Safety eyewear and face shields appropriate for the work being performed should be used. Ordinarily, this means a minimum of safety eyewear or splash goggles.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State/Color:	Buff white pre-impregnated fiberglass cloth composite		
Odor:	Slight	**Odor Threshold:**	0.39 ppm
pH	N/A	**Melting/Freezing Points:**	>800^{0}C/0^{0}C
Boiling Point:	368^{0}C (694^{0}F)	**Flash Point:**	N/A
Evaporation Rate:	N/A	**Vapor Pressure/Density:**	N/A
Relative Density	1.14	**Viscosity:**	N/A
Auto-Ignition Temp.	N/A	**Decomposition Temp.**	N/A
Solubility: Insoluble, material cures when exposed to water.			
VOC Content: N/A-none.			

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Exothermic reactions can occur with amines or alcohols. Reacts with water, forming $C0_2$, which risks bursting closed containers.

Chemical Stability: This product is stable under normal conditions.

Possibility of Hazardous Reactions: See "Reactivity" above for cautions.

Conditions to Avoid: High temperatures.

Incompatible Materials: Strong amines and alcohols.

Hazardous Decomposition Products: None, when handled properly. Thermal decomposition may produce smoke, oxides of carbon and nitrogen, isocyanate vapors and traces of hydrogen cyanide.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity

Product/Ingredient	LC_{50} Inhalation	LD_{50} Oral (Rat)	LD_{50} Dermal (Rabbit)
Fiberglass Fabric	N/A	N/A	N/A
Polyisocyanate	1.5 mg/l*	>2,000mg/kg	>9,400mg/kg
Diphenylmethane-diisocyanate, isomers and homologues	0.31 mg/l (4 hours)*	>10,000 mg/kg	>9,400mg/kg
Chopped Fiberglass	N/A	N/A	N/A
Titanium Dioxide	N/A	10,000 mg/kg	N/A

***Note:** Substance was tested in a particle size distribution different than as offered on the market and in which it can be reasonably expected to be used in this application. A reduced classification for acute inhalation toxicity is therefore appropriate.

Skin Corrosion/Irritation: Skin Irritation-Category 2

Serious Eye Damage/Irritation: Eye Irritation-Category 2

Respiratory or Skin Sensitization: Unlikely to cause skin sensitization. May cause respiratory sensitization.

Mutagenicity: No specific data. **Carcinogenicity:** No specific data.

Reproductive Toxicity: No effects shown. **Teratogenicity:** No effects shown.

Aspiration Hazard: No specific data. **Genotoxicity:** No effects shown.

Specific Target Organ Toxicity (Single Exposure): May cause respiratory irritation.

Specific Target Organ Toxicity (Repeated Exposure): May cause damage to organs.

Information on the Likely Routes of Exposure: Eyes, skin, inhalation and ingestion.

Potential Acute Health Effects and Related Symptoms:

See **Section 4**.

Delayed, immediate and chronic effects from short and long term exposure:
Some persons may become sensitized after chronic inhalation or skin contact and may exhibit reactions when exposed.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity, Persistence and Degradability: Material is not inherently degradable and hydrolyzes rapidly in water. Material does not meet the criteria of acute aquatic toxicity and has there is no evidence of chronic aquatic toxicity.

Product/Ingredient	LC_{50} 96 Hours (Fish)	EC_{50} 24 Hours (Daphnia)	IC_{50} 96 Hours (Bacteria)
Fiberglass Fabric	N/A	N/A	N/A
Polyisocyanate	>100 mg/l	83 mg/l	N/A
Diphenylmethane-diisocyanate, isomers and homologues	24 mg/l	75 mg/L	N/A
Chopped Fiberglass	N/A	N/A	N/A
Titanium Dioxide	N/A	N/A	N/A

Bioaccumulative Potential: Bioaccumulation is not expected as material hydrolyzes rapidly in water.

Ingredient	$LogP_{OW}$	BCF	Potential
Polyisocyanate	N/A	N/A	N/A
Diphenylmethane- diisocyanate, isomers and homologues	N/A	<14	Low

Mobility in Soil (soil/water partition coefficient-K_{OC}):
Material is not expected to be mobile in soil. Material hydrolyzes rapidly with any exposure to water/humidity and becomes non-hazardous after curing.

Other Adverse Effects: Other information is not available. No ingredients meet the classification criteria as PBT or vPvB.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of unused contents (incineration) in accordance with national and local regulations. Dispose of container in accordance with national and local regulations. Ensure the use of properly authorized waste

management companies, where appropriate. See **Section 8** for recommendations on the use of personal protective equipment.

SECTION 14: TRANSPORTATION INFORMATION

UN No's: DOT/TG: N/A IMDG: N/A ICAO: N/A

DOT/TDG Proper Shipping Name:
LIQUID, CONTAINS ISOCYANATES, N.O.S. Not regulated in shipments of less than 33,750 kg (74,500 lbs.)

Hazard Classes: DOT, TDG, IMDG and ICAO: Not Regulated.

Hazard Labels: Not regulated in normal shipments.

Pack Groups: Not regulated in normal shipments.

Environmental Hazards: Marine Pollutant: Yes **Hazardous Substance (USA):** No.

Transport in Bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable.

Label for Conveyance:

None, in normal shipments.

SECTION 15: REGULATORY INFORMATION

INTERNATIONAL REGULATIONS:

International and US Inventory Lists

Canada Inventory (DSL)	All components listed or exempt.	**EU-ELINCS**	Not listed.*
Canada Inventory (NDSL)	Not listed.*	**EU-EINECS**	Listed or Exempt
US Toxic Substances Control Act (TSCA)	All components listed or exempt.		
Other	Not determined, no additional information is available.		

***Note:** There is no listing on the public inventory, no information is available or the component has not been reviewed.

Substances of Very High Concern: None of the components are listed.

US State Right to Know Regulations:
Titanium Dioxide is on "right to know" listings of the following states: MA, NJ, PA, RI and CA. Titanium Dioxide is a CA Proposition 65 chemical if airborne and respirable. It is not listed if not airborne and remains bound in a product matrix, as in this application.

SECTION 16: OTHER INFORMATION

ABBREVIATIONS:

ACGIH: American Conference of Governmental Industrial Hygienists
ADR/RID: European dangerous goods transport, road and rail, regulations
CAS: Chemical Abstract Service Registry
DOT: Department of Transportation (U.S.)
GHS: Globally Harmonized System of Classification and Labeling of Chemicals
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
IMDG: International Maritime Dangerous Goods code
OEL: Occupational Exposure Limits
OSHA: Occupational Safety and Health Administration (U.S.)
PEL: Permissible Exposure Limit
SDS: Safety Data Sheet
STEL: Short Term Exposure Limit (15 minute Time Weighted Average)
TDG: Canadian Transportation of Dangerous Goods Act and Regulations
TPQ: Threshold Planning Quantity
RQ: Reportable Quantity
UN: United Nations
U.S.: United States
N/A: Not available or not applicable.

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Revision: 0
Reason for Revision: N/A

Notice:

The information contained herein is provided is correct to the best of our knowledge, information and belief at the date of publication. However, Air Logistics Corporation (ALC) makes no representation as to its completeness and accuracy. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release. This information is not to be considered a warranty or quality specification. Since the conditions of handling and use are beyond ALC's control, we make no guarantee of results and assume no liability for damages incurred by use of this material. This information relates only to the specific material designated and may not be valid if used in combination with any other materials or in any process not specified in the text. It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations.

END OF SDS

1. IDENTIFICATION OF PRODUCT & COMPANY

PRODUCT REFERENCE	BF913 – 17880A	
PRODUCT NAME	BIO- FIX™ 913 Epoxy Base - White	
INTENDED USE	Anticorrosive coating component	
DETAILS OF COMPANY	MyOilPatch info@myoilpatch.com	(USA) 817-240-6434

2. HAZARDS IDENTIFICATION

HAZARD STATEMENTS:
H317-May cause an allergic skin reaction.
H315-causes skin irritation.
H319-Irritating to eyes and skin.
H411-Toxic to aquatic organisms in unreacted condition, may cause long term adverse effects in the aquatic environment (unmixed material only – ONCE MIXED THE MATERIAL IS HARMLESS TO ENVIRONMENT.)
H334-May cause allergy or asthma symptoms or breathing difficulties if inhaled. NOTE: UNDER NORMAL CONDITIONS AND PROCEDURES INHALATION OF VOLATILE COMPONENTS IS HIGHLY UNLIKELY.
PRECAUTIONARY STATEMENTS:
P261 – Avoid breathing mist/vapours/spray.
P264 – Wash hands and skin contact areas thoroughly after handling.
P272 – Contaminated clothing should not be allowed out of the work place.
P273 – Avoid release to the environment.(ONLY IN UNMIXED STATE)
P280 – Wear protective gloves, eye protection and face protection etc.
P301 – P315+P331
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P303 – P361+P352+P332:P313
P305–P338+P351 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
P304–P341
P333 + P313 if skin irritation or rash occurs: Get medical advice/attention.
P337 + P313 if eye irritation persists: Get medical advice/attention.
P362 – Take off contaminated clothing and wash before reuse.
P391 – Collect spillage.
P501 – Dispose of contents/container through a waste management company authorized by the local government.
SIGNAL WORD: WARNING

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances presenting a health or environmental hazard within the meaning of the CHIP Regulations or which are assigned Occupational Exposure Values.

Substance Name	Concentration Range (%)	GHS(*)	EINECS/ ELINCS No.	CAS No.
Bisphenol A liquid epoxy resin	50 – 90%	2-H315, 1-H317, 2-H319, 2-411	500-033-5	28064-14-4
p-tertbutylphenyl glycidyl ether	5-10%	2-H315, 1-H317, 2-H319, 4-413	221-453-2	3101-60-8
Poly(terephthaloylchloride/ p-phenylenediamine	2-5%	2-H315, 1-H317, 2-H319, 4-413		26125-61-1

(*) for full text see Section 16

4. FIRST AID MEASURES

GENERAL	In all cases of doubt or when symptoms persist seek medical attention. Never give anything by mouth to an unconscious person.
INHALATION	Remove to fresh air, check for breathing and administer artificial respiration if necessary. Give nothing by mouth. If unconscious place in recovery position and seek medical advice. If conscious ensure the person sits or lies down. Obtain medical attention if ill effects occur.
EYE CONTACT	Remove contact lenses. Irrigate copiously with clean, fresh water for at least 15 minutes holding the eyelids apart, seek medical advice if effects occur.
SKIN CONTACT	Remove contaminated clothing and footwear. Wash skin thoroughly with soap and water or use a proprietary skin cleanser. Do NOT use solvents or thinners. Seek medical attention if irritation persists.
INGESTION	If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting. If conscious give 1 pint of fresh water to drink. If unconscious, check for breathing and give artificial respiration if necessary.

5. FIRE FIGHTING MEASURES

FLAMMABILITY CLASSIFICATON: Combustible IIIB

FLASH POINT:	>250°F
EXTINGUISHING MEDIA:	Carbon dioxide, foam, dry chemical, water fog.
NOT RECOMMENDED:	Water jet
UNUSUAL HAZARDS:	Combustion products may include, but are not limited to: phenolics, carbon dioxide, acrolein, and carbon dioxide.
SPECIAL FIREFIGHTING PROCEDURES:	Use protective firefighting clothing and positive pressure self-contained breathing apparatus to protect against potential harmful and/or irritating fumes. Do not use high pressure water since this may spread the area of the fire.

6. ACCIDENTAL RELEASE MEASURES

Exclude sources of ignition and ventilate area. Exclude non-essential personnel. Avoid breathing vapours. Refer to protective measures listed in Sections 7 and 8. Contain and collect spillages with non-combustible absorbent materials e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container for disposal in accordance with waste regulations (see Section 13).
Do not allow to enter drains or water courses. Clean preferably with a detergent, avoid use of solvents. If the product enters drains or sewers immediately contact the local water company; in the case of contamination of streams, rivers or lakes the relevant environmental agency. Dispose of in accordance with applicable local and federal environmental control regulations.

7. STORAGE & HANDLING

HANDLING

Provide sufficient air exchange and/or exhaust in workrooms. Ensure adequate ventilation. Handle and open container with care. When using do not eat, drink or smoke.

STORAGE

Keep away from food, drink and animal feeding stuffs. Keep container tightly closed. Observe the label precautions. Store between 5 and 40°C in a dry well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorised access. Containers which are opened should be properly resealed and kept upright to prevent leakage. Store away from oxidising agents and strongly alkaline and acid materials. The principles contained in general guidance for storage of packaged potentially dangerous substances should be observed when storing this product.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING MEASURES

Provide additional forced ventilation if existing natural ventilation is insufficient. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of solvent vapour and/or particulates below the relevant Occupational Exposure Values, suitable respiratory protective equipment should be worn (see "Workplace Exposure Limits" below).

EXPOSURE LIMIT VALUES

Substance	TWA (1)		STEL (2)		Notations (3)
	ppm (4)	mg/m³ (4)	ppm (4)	mg/m³ (4)	
Bisphenol A liquid epoxy resin	None listed		None listed		

NOTES

(1) Long Term Exposure Limit - 8 hour Time Weighted Average.
(2) Short Term Exposure Limit - 15 minute reference period.
(3) 'Sk' indicates a risk of absorption through the skin. 'Sen' indicates a respiratory sensitizer.
(4) 'WEL' indicates Workplace Exposure Limit.

GENERAL PROTECTION	All personal protective equipment, including respiratory protective equipment, used to control exposure to hazardous substances must be selected to meet the requirements of the OSHA regulations.
RESPIRATORY PROTECTION	Air fed respiratory protective equipment should be worn when sprayed if exposure of the sprayer or other people nearby cannot be controlled to below the Occupational Exposure Values and engineering methods cannot reasonably be improved.
HAND PROTECTION	When skin exposure may occur, advice should be sought from glove suppliers on appropriate types and usage times for this product. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. Barrier creams may help to protect exposed areas of skin, but are not substitutes for full physical protection. They should not be applied after exposure has occurred.
EYE PROTECTION	Eye protection designed to protect against liquid splashes should be worn.
SKIN PROTECTION	Cotton or cotton/synthetic overalls or coveralls are normally suitable. Grossly contaminated clothing should be removed and the skin washed with soap and water or a proprietary skin cleaner. Regular skin inspection of users of this product is recommended. ALWAYS WASH YOUR HANDS BEFORE EATING, SMOKING OR USING THE TOILET. See Section 12 for detailed information.

9. PHYSICAL PROPERTIES

PHYSICAL STATE:	White paste		
FLASH POINT:	>250°F	METHOD:	DIN 51758 (Pensky-Martins Closed Cup)
VISCOSITY:	250 – 500 Poise	METHOD:	BS3900 Part A7
SPECIFIC GRAVITY:	1.2 Kgs/ Ltr.	METHOD:	BS3900 Part A19
VOC CONTENT:	Essentially zero under normal conditions.		
VAPOUR DENSITY:	N/A		
SOLUBILITY IN WATER:	Immiscible		

10. STABILITY AND REACTIVITY

Stable under the recommended storage and handling conditions (see Section 7). In a fire, hazardous decomposition products such as smoke, acrolein, carbon monoxide, carbon dioxide, and oxides of nitrogen may be produced. Keep away from oxidising agents and strongly alkaline and strongly acidic materials to prevent the possibility of an exothermic reaction.
Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

There is no data available on the product itself. The product has been assessed by evaluation of its raw materials. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short term and long term exposure by oral, inhalation and dermal routes of exposure and eye contact. See Sections 3 and 15 for details of the resulting hazard classification. Splashes in the eye may cause irritation and reversible local damage. Based on the properties of the epoxy constituents and considering toxicological data on similar preparations, this preparation may be a skin sensitizer and an irritant. It contains low molecular weight epoxy constituents which are irritating to eyes, mucous membrane and skin. Repeated skin contact may lead to irritation and to sensitization, possibly with cross-sensitisation to other epoxies. Skin contact with the preparation and exposure to mist and vapour should be avoided.
Acute Oral Toxicity: LD50 (rat): >5,000mg/Kg. Acute Dermal Toxicity: LD50 (rabbit): 20,000mg/Kg.

12. ECOLOGICAL INFORMATION

There is no data available on the product itself. This product has been assessed by evaluation of its raw materials and is assessed for ecological hazards accordingly. See Sections 3 and 15 for details. The product should not be allowed to enter drains or watercourses or be deposited where it can affect ground or surface waters. Bisphenol A based liquid epoxy resins as well as many reactive diluents were classified as dangerous for the environment by the Association of Plastic Manufacturers in Europe (APME) based on available data and knowledge. When properly cured with appropriate curing agent this epoxy base is completely inert to the environment.

13. DISPOSAL CONSIDERATIONS

Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with local and federal regulations.

14. TRANSPORT INFORMATION

DOT Proper shipping description : NOT REGULATED FOR GROUND TRANSPORT

IMDG proper shipping description: Environmentally hazardous substance, liquid, n.o.s. (Epoxy resin, butylphenyl glycidyl ether)
UN#: 3082
Hazard class: 9
Packing group: PG III
Ems#: F – A, S – F
Marine pollutant: Yes

IATA Proper shipping description: Environmentally hazardous substance, liquid, n.o.s. (Epoxy resin, butylphenyl glycidyl ether)
UN#: 3082
Hazard class: 9
Packing Group: PG III
EmS#: F – A, S – F
Additional information: MARINE POLLUTANT

15. REGULATORY INFORMATION

SARA Title III section 311/312 (40CFR370) : Acute health hazard
SARA Title III section 313 (40CFR372) : No reportable components
CERCLA status (40CFR302): no reportable quantity components
TSCA inventory status: Reported/included
Canadian DSL Status : reported/included
Chemicals known to the state of California to cause cancer or reproductive toxicity: This product contains epichlorohyddrin CAS# 106 – 89 – 8 (trace amounts)
REACH Annex XIV (SVHC): No listed components
REACH Annex XIVII: No listed components
REACH status (EC 1907/2006): This material has been registered, pre-existed or is otherwise exempted from registration under the Registration, Evaluation and Authorisation of Chemical Substances.
Chemical safety assessment: Not available
The information contained in this Safety Data Sheet does not constitute the user's own assessment of the workplace risks as required by other health and safety legislation.
The information contained in this Safety Data Sheet does not constitute the user's own assessment of the workplace risks as required by other health and safety legislation.

16. OTHER INFORMATION

Text of any GHS phrases listed in Section 3

HAZARD STATEMENTS:

H317-May cause an allergic skin reaction.

H315-causes skin irritation.

H319-Irritating to eyes and skin.

H411-Toxic to aquatic organisms in unreacted condition, may cause long term adverse effects in the aquatic environment (unmixed material only – ONCE MIXED THE MATERIAL IS HARMLESS TO ENVIRONMENT.)

H334-May cause allergy or asthma symptoms or breathing difficulties if inhaled. NOTE: UNDER NORMAL CONDITIONS AND PROCEDURES INHALATION OF VOLATILE COMPONENTS IS HIGHLY UNLIKELY.

PRECAUTIONARY STATEMENTS:

P261 – Avoid breathing mist/vapours/spray.

P264 – Wash hands and skin contact areas thoroughly after handling.

P272 – Contaminated clothing should not be allowed out of the work place.

P273 – Avoid release to the environment.(ONLY IN UNMIXED STATE)

P280 – Wear protective gloves, eye protection and face protection etc.

P301 – P315+P331

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P303 – P361+P352+P332:P313

P305–P338+P351 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

P304–P341

P333 + P313 if skin irritation or rash occurs: Get medical advice/attention.

P337 + P313 if eye irritation persists: Get medical advice/attention.

P362 – Take off contaminated clothing and wash before reuse.

P391 – Collect spillage.

P501 – Dispose of contents/container through a waste management company authorized by the local government.

SIGNAL WORD: WARNING

HMIS ratings: Health: 2; Flammability: 1; Reactivity: 0.

Preparer: J. Longmore Refs: SUZ: rar TYU dd 8/19/11

1. IDENTIFICATION OF PRODUCT & COMPANY

PRODUCT REFERENCE	BF913-16270B	
PRODUCT NAME	BIO – FIX ™ 913 Curing Agent – Gray	
INTENDED USE	Anticorrosive coating component	
DETAILS OF COMPANY	MyOilPatch info@myoilpatch.com	(USA) 817-240-6434

2. HAZARDS IDENTIFICATION

HAZARD STATEMENTS:
H317-May cause an allergic skin reaction.
H315-causes skin irritation.
H319-Irritating to eyes and skin.
H411-Toxic to aquatic organisms in unreacted condition, may cause long term adverse effects in the aquatic environment (unmixed material only – ONCE MIXED THE MATERIAL IS HARMLESS TO ENVIRONMENT.)
H334-Do not breathe vapor or spray. May cause respiratory difficulties if inhaled. NOTE: UNDER NORMAL CONDITIONS AND PROCEDURES INHALATION OF VOLATILE COMPONENTS IS HIGHLY UNLIKELY.
PRECAUTIONARY STATEMENTS:
P261 – Avoid breathing mist/vapours/spray.
P264 – Wash hands and skin contact areas thoroughly after handling.
P272 – Contaminated clothing should not be allowed out of the work place.
P273 – Avoid release to the environment.(ONLY IN UNMIXED STATE)
P280 – Wear protective gloves, eye protection and face protection etc.
P301 – P315+P331
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P303 – P361+P352+P332:P313
P305–P338+P351 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
P304–P341
P333 + P313 if skin irritation or rash occurs: Get medical advice/attention.
P337 + P313 if eye irritation persists: Get medical advice/attention.
P362 – Take off contaminated clothing and wash before reuse.
P391 – Collect spillage.
P501 – Dispose of contents/container through a waste management company authorized by the local government.

SIGNAL WORD: WARNING

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances presenting a health or environmental hazard within the meaning of the CHIP Regulations or which are assigned Occupational Exposure Values.

Substance Name	Concentration Range (%)	GHS(*)	EINECS/ ELINCS No.	CAS No.
Mercaptan Polymer(trade secret)	25 – 40 %	2-H315, 1-H317, 2-H319, 2-411	Not Available	101359 – 87 – 9
2,4,6tri(dimethylaminomethyl)phenol	2 – 5%	2-H315, 1-H317, 2-H319, 4-413	202 – 013 – 9	90 – 72 – 2
Poly(terephthaloylchloride/ p-phenylenediamine	0 – 5%		Not Available	26125 – 61 – 1
benzyl alcohol	10 – 20%	2-H315, 1-H317, 2-H319, 4-413	202 – 859 – 9	100 – 51 – 6
4,4’ Methylenebiscyclohexanamine	1 – 3%	H302,H314, H317, H373, H411	217-168-8	1761-71-3
Methyleneoxide, polymer with benzenamine, hydrogenated	7 – 15%	P304 – P341	Not Available	135108-88-2
Organic Acid	0.75 – 2%		Not Available	Not Available
Magnesium Silicate (Talc)	15 – 30%		Not Available	133343-88-0

(*) for full text see Section 16

4. FIRST AID MEASURES

GENERAL	In all cases of doubt or when symptoms persist seek medical attention. Never give anything by mouth to an unconscious person.
INHALATION	Remove to fresh air, check for breathing and administer artificial respiration if necessary. Give nothing by mouth. If unconscious place in recovery position and seek medical advice. If conscious ensure the person sits or lies down. Obtain medical attention if ill effects occur.
EYE CONTACT	Remove contact lenses. Irrigate copiously with clean, fresh water for at least 15 minutes holding the eyelids apart, seek medical advice if effects occur.
SKIN CONTACT	Remove contaminated clothing and footwear. Wash skin thoroughly with soap and water or use a proprietary skin cleanser. Do NOT use solvents or thinners. Seek medical attention if irritation persists.
INGESTION	If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting. If conscious give 1 pint of fresh water to drink. If unconscious, check for breathing and give artificial respiration if necessary.

5. FIRE FIGHTING MEASURES

FLAMMABILITY CLASSIFICATON: Combustible IIIB

FLASH POINT:	>200°F
EXTINGUISHING MEDIA:	Carbon dioxide, foam, dry chemical, water fog.
NOT RECOMMENDED:	Water jet
UNUSUAL HAZARDS:	Combustion products may include, but are not limited to: phenolics, carbon dioxide, acrolein, and carbon dioxide.
SPECIAL FIREFIGHTING PROCEDURES:	Use protective firefighting clothing and positive pressure self-contained breathing apparatus to protect against potential harmful and/or irritating fumes. Do not use high pressure water since this may spread the area of the fire.

6. ACCIDENTAL RELEASE MEASURES

Exclude sources of ignition and ventilate area. Exclude non-essential personnel. Avoid breathing vapours. Refer to protective measures listed in Sections 7 and 8. Contain and collect spillages with non-combustible absorbent materials e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container for disposal in accordance with waste regulations (see Section 13).
Do not allow to enter drains or water courses. Clean preferably with a detergent, avoid use of solvents. If the product enters drains or sewers immediately contact the local water company; in the case of contamination of streams, rivers or lakes the relevant environmental agency.
Dispose of in accordance with applicable local and federal environmental control regulations.

7. STORAGE & HANDLING

HANDLING

Provide sufficient air exchange and/or exhaust in workrooms. Ensure adequate ventilation. Handle and open container with care. When using do not eat, drink or smoke.

STORAGE

Keep away from food, drink and animal feeding stuffs. Keep container tightly closed. Observe the label precautions. Store between 5 and 40°C in a dry well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorised access. Containers which are opened should be properly resealed and kept upright to prevent leakage. Store away from oxidising agents and strongly alkaline and acid materials. The principles contained in general guidance for storage of packaged potentially dangerous substances should be observed when storing this product.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING MEASURES

Provide additional forced ventilation if existing natural ventilation is insufficient. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of solvent vapour and/or particulates below the relevant Occupational Exposure Values, suitable respiratory protective equipment should be worn (see "Workplace Exposure Limits" below).

EXPOSURE LIMIT VALUES

Substance	TWA (1)		STEL (2)		Notations (3)
	ppm (4)	mg/m³ (4)	ppm (4)	mg/m³ (4)	
	None listed		None listed		

NOTES

(1) Long Term Exposure Limit - 8 hour Time Weighted Average.
(2) Short Term Exposure Limit - 15 minute reference period.
(3) 'Sk' indicates a risk of absorption through the skin. 'Sen' indicates a respiratory sensitizer.
(4) 'WEL' indicates Workplace Exposure Limit.

GENERAL PROTECTION	All personal protective equipment, including respiratory protective equipment, used to control exposure to hazardous substances must be selected to meet the requirements of the OSHA regulations.
RESPIRATORY PROTECTION	Air fed respiratory protective equipment should be worn when sprayed if exposure of the sprayer or other people nearby cannot be controlled to below the Occupational Exposure Values and engineering methods cannot reasonably be improved.
HAND PROTECTION	When skin exposure may occur, advice should be sought from glove suppliers on appropriate types and usage times for this product. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. Barrier creams may help to protect exposed areas of skin, but are not substitutes for full physical protection. They should not be applied after exposure has occurred.
EYE PROTECTION	Eye protection designed to protect against liquid splashes should be worn.
SKIN PROTECTION	Cotton or cotton/synthetic overalls or coveralls are normally suitable. Grossly contaminated clothing should be removed and the skin washed with soap and water or a proprietary skin cleaner. Regular skin inspection of users of this product is recommended. ALWAYS WASH YOUR HANDS BEFORE EATING, SMOKING OR USING THE TOILET. See Section 12 for detailed information.

9. PHYSICAL PROPERTIES

PHYSICAL STATE:	Gray paste		
FLASH POINT:	>200°F	METHOD:	DIN 51758 (Pensky-Martins Closed Cup)
VISCOSITY:	25 – 50 Poise	METHOD:	BS3900 Part A7
SPECIFIC GRAVITY:	1.4Kgs/ Ltr.	METHOD:	BS3900 Part A19
VOC CONTENT:	Essentially zero under normal conditions.		
VAPOUR DENSITY:	N/A		
SOLUBILITY IN WATER:	Immiscible		

10. STABILITY AND REACTIVITY

Stable under the recommended storage and handling conditions (see Section 7). In a fire, hazardous decomposition products such as smoke, acrolein, carbon monoxide, carbon dioxide, and oxides of nitrogen may be produced. Keep away from oxidising agents and strongly alkaline and strongly acidic materials to prevent the possibility of an exothermic reaction.
Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

There is no data available on the product itself. The product has been assessed by evaluation of its raw materials. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short term and long term exposure by oral, inhalation and dermal routes of exposure and eye contact. See Sections 3 and 15 for details of the resulting hazard classification. Splashes in the eye may cause irritation and reversible local damage. Based on the properties of the epoxy constituents and considering toxicological data on similar preparations, this preparation may be a skin sensitizer and an irritant. It contains low molecular weight epoxy constituents which are irritating to eyes, mucous membrane and skin. Repeated skin contact may lead to irritation and to sensitization, possibly with cross-sensitisation to other epoxies. Skin contact with the preparation and exposure to mist and vapour should be avoided.

Acute Oral Toxicity: LD50 (rat): >5,000mg/Kg. Acute Dermal Toxicity: LD50 (rabbit): 20,000mg/Kg.

12. ECOLOGICAL INFORMATION

There is no data available on the product itself. This product has been assessed by evaluation of its raw materials and is assessed for ecological hazards accordingly. See Sections 3 and 15 for details. The product should not be allowed to enter drains or watercourses or be deposited where it can affect ground or surface waters. When properly cured with the appropriate epoxy base this curing agent is completely inert to the environment.

13. DISPOSAL CONSIDERATIONS

Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with local and federal regulations.

14. TRANSPORT INFORMATION

Transport within the user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of accident or spillage.

Onward transport, subsequent to purchase:

Proper Shipping Name:	"Not Regulated" by USDOT or IMO for Ground or Ocean shipment.
UN Number:	Aviation Regulated Liquid, N.O.S.
Hazard Class:	UN 3334
Packing Group:	9
Sub Hazard Class:	III
Technical Name1 (NOS entries only):	
Technical Name 2 (NOS entries only):	(Mercaptan Terminated Polymer)
Marine Pollutant: (IMDG only)(Y/N):	Possible Marine Pollutant in unreacted condition – do not allow to enter water courses.
Flashpoint (IMDG only):	>200°F

15. REGULATORY INFORMATION

SARA Title III section 311/312 (40CFR370) : Acute health hazard
SARA Title III section 313 (40CFR372) : No reportable components
CERCLA status (40CFR302): no reportable quantity components
TSCA inventory status: Reported/included
Canadian DSL Status : reported/included
REACH Annex XIV (SVHC): No listed components
REACH Annex XIVII: No listed components
REACH status (EC 1907/2006): This material has been registered, pre-existed or is otherwise exempted from registration under the Registration, Evaluation and Authorisation of Chemical Substances.
Chemical safety assessment: Not available
The information contained in this Safety Data Sheet does not constitute the user's own assessment of the workplace risks as required by other health and safety legislation.

16. OTHER INFORMATION

Text of any GHS phrases listed in Section 3

HAZARD STATEMENTS:

H317-May cause an allergic skin reaction.

H315-causes skin irritation.

H319-Irritating to eyes and skin.

H411-Toxic to aquatic organisms in unreacted condition, may cause long term adverse effects in the aquatic environment (unmixed material only – ONCE MIXED THE MATERIAL IS HARMLESS TO ENVIRONMENT.)

H334-Do not breathe vapor or spray. May cause respiratory difficulties if inhaled. NOTE: UNDER NORMAL CONDITIONS AND PROCEDURES INHALATION OF VOLATILE COMPONENTS IS HIGHLY UNLIKELY.

PRECAUTIONARY STATEMENTS:

P261 – Avoid breathing mist/vapours/spray.

P264 – Wash hands and skin contact areas thoroughly after handling.

P272 – Contaminated clothing should not be allowed out of the work place.

P273 – Avoid release to the environment.(ONLY IN UNMIXED STATE)

P280 – Wear protective gloves, eye protection and face protection etc.

P301 – P315+P331

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P303 – P361+P352+P332:P313

P305–P338+P351 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

P304–P341

P333 + P313 if skin irritation or rash occurs: Get medical advice/attention.

P337 + P313 if eye irritation persists: Get medical advice/attention.

P362 – Take off contaminated clothing and wash before reuse.

P391 – Collect spillage.

P501 – Dispose of contents/container through a waste management company authorized by the local government.

HMIS ratings: Health: 2; Flammability: 1; Reactivity: 0.

Preparer: J. Longmore Refs: SUZ: rar TYU dd 8/19/11

1. IDENTIFICATION OF PRODUCT & COMPANY

PRODUCT REFERENCE	BF911-17880A	
PRODUCT NAME	BIO- FIX™ 911 Epoxy Base – White	
INTENDED USE	Anticorrosive coating component	
DETAILS OF COMPANY	MyOilPatch	Tel: 817-240-6434 (USA) Email: info@myoilpatch.com

2. HAZARDS IDENTIFICATION

HAZARD STATEMENTS:
H317-May cause an allergic skin reaction.
H315-causes skin irritation.
H319-Irritating to eyes and skin.
H411-Toxic to aquatic organisms in unreacted condition, may cause long term adverse effects in the aquatic environment (unmixed material only – ONCE MIXED THE MATERIAL IS HARMLESS TO ENVIRONMENT.)
H334-Do not breathe vapor or spray. May cause respiratory difficulties if inhaled.
PRECAUTIONARY STATEMENTS:
P261 – Avoid breathing mist/vapours/spray.
P264 – Wash hands and skin contact areas thoroughly after handling.
P272 – Contaminated clothing should not be allowed out of the work place.
P273 – Avoid release to the environment.(ONLY IN UNMIXED STATE)
P280 – Wear protective gloves, eye protection and face protection etc.
P301 – P315+P331
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P303 – P361+P352+P332:P313
P305–P338+P351 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
P304–P341
P333 + P313 if skin irritation or rash occurs: Get medical advice/attention.
P337 + P313 if eye irritation persists: Get medical advice/attention.
P362 – Take off contaminated clothing and wash before reuse.
P391 – Collect spillage.
P501 – Dispose of contents/container through a waste management company authorized by the local government.
SIGNAL WORD: WARNING

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances presenting a health or environmental hazard within the meaning of the CHIP Regulations or which are assigned Occupational Exposure Values.

Substance Name	Concentration Range (%)	GHS (*)	EINECS/ ELINCS No.	CAS No.
Bisphenol A liquid epoxy resin	50 – 90%	2-H315, 1-H317, 2-H319, 2-411	500-033-5	25068-38-6
p-tertbutylphenyl glycidyl ether	5-10%	2-H315, 1-H317, 2-H319, 4-413	221-453-2	3101-60-8
Poly(terephthaloylchloride/ p-phenylenediamine	2-5%	2-H315, 1-H317, 2-H319, 4-413		26125-61-1

(*) for full text see Section 16

4. FIRST AID MEASURES

GENERAL	In all cases of doubt or when symptoms persist seek medical attention. Never give anything by mouth to an unconscious person.
INHALATION	Remove to fresh air, check for breathing and administer artificial respiration if necessary. Give nothing by mouth. If unconscious place in recovery position and seek medical advice. If conscious ensure the person sits or lies down. Obtain medical attention if ill effects occur.
EYE CONTACT	Remove contact lenses. Irrigate copiously with clean, fresh water for at least 15 minutes holding the eyelids apart, seek medical advice if effects occur.
SKIN CONTACT	Remove contaminated clothing and footwear. Wash skin thoroughly with soap and water or use a proprietary skin cleanser. Do NOT use solvents or thinners. Seek medical attention if irritation persists.
INGESTION	If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting. If conscious give 1 pint of fresh water to drink. If unconscious, check for breathing and give artificial respiration if necessary.

5. FIRE FIGHTING MEASURES

FLAMMABILITY CLASSIFICATON: Combustible IIIB

FLASH POINT:	>250°F
EXTINGUISHING MEDIA:	Carbon dioxide, foam, dry chemical, water fog.
NOT RECOMMENDED:	Water jet
UNUSUAL HAZARDS:	Combustion products may include, but are not limited to: phenolics, carbon dioxide, acrolein, and carbon dioxide.
SPECIAL FIREFIGHTING PROCEDURES:	Use protective firefighting clothing and positive pressure self-contained breathing apparatus to protect against potential harmful and/or irritating fumes. Do not use high pressure water since this may spread the area of the fire.

6. ACCIDENTAL RELEASE MEASURES

Exclude sources of ignition and ventilate area. Exclude non-essential personnel. Avoid breathing vapours. Refer to protective measures listed in Sections 7 and 8. Contain and collect spillages with non-combustible absorbent materials e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container for disposal in accordance with waste regulations (see Section 13).

Do not allow to enter drains or water courses. Clean preferably with a detergent, avoid use of solvents. If the product enters drains or sewers immediately contact the local water company; in the case of contamination of streams, rivers or lakes the relevant environmental agency.

Dispose of in accordance with applicable local and federal environmental control regulations.

7. STORAGE & HANDLING

HANDLING

Provide sufficient air exchange and/or exhaust in workrooms. Ensure adequate ventilation. Handle and open container with care. When using do not eat, drink or smoke.

Pack Size	Composite gross weight does not exceed
1.4 US Gallons	15.5lb./7 Kg

STORAGE

Keep away from food, drink and animal feeding stuffs. Keep container tightly closed. Observe the label precautions. Store between 5 and 40°C in a dry well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorised access. Containers which are opened should be properly resealed and kept upright to prevent leakage. Store away from oxidising agents and strongly alkaline and acid materials. The principles contained in general guidance for storage of packaged potentially dangerous substances should be observed when storing this product.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING MEASURES

Provide additional forced ventilation if existing natural ventilation is insufficient. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of solvent vapour and/or particulates below the relevant Occupational Exposure Values, suitable respiratory protective equipment should be worn (see "Workplace Exposure Limits" below).

EXPOSURE LIMIT VALUES

Substance	TWA (1)		STEL (2)		Notations (3)
	ppm (4)	mg/m³ (4)	ppm (4)	mg/m³ (4)	
Bisphenol A liquid epoxy resin	None listed		None listed		

NOTES
(1) Long Term Exposure Limit - 8 hour Time Weighted Average.
(2) Short Term Exposure Limit - 15 minute reference period.
(3) 'Sk' indicates a risk of absorption through the skin. 'Sen' indicates a respiratory sensitizer.
(4) 'WEL' indicates Workplace Exposure Limit.

GENERAL PROTECTION	All personal protective equipment, including respiratory protective equipment, used to control exposure to hazardous substances must be selected to meet the requirements of the OSHA regulations.
RESPIRATORY PROTECTION	Air fed respiratory protective equipment should be worn when sprayed if exposure of the sprayer or other people nearby cannot be controlled to below the Occupational Exposure Values and engineering methods cannot reasonably be improved.
HAND PROTECTION	When skin exposure may occur, advice should be sought from glove suppliers on appropriate types and usage times for this product. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. Barrier creams may help to protect exposed areas of skin, but are not substitutes for full physical protection. They should not be applied after exposure has occurred.
EYE PROTECTION	Eye protection designed to protect against liquid splashes should be worn.
SKIN PROTECTION	Cotton or cotton/synthetic overalls or coveralls are normally suitable. Grossly contaminated clothing should be removed and the skin washed with soap and water or a proprietary skin cleaner. Regular skin inspection of users of this product is recommended. ALWAYS WASH YOUR HANDS BEFORE EATING, SMOKING OR USING THE TOILET. See Section 12 for detailed information.

9. PHYSICAL PROPERTIES

PHYSICAL STATE:	White paste.		
FLASH POINT:	>250°F	METHOD:	DIN 51758 (Pensky-Martins Closed Cup)
VISCOSITY:	250 – 500 Poise	METHOD:	BS3900 Part A7
SPECIFIC GRAVITY:	1·15 Kgs/ Ltr.	METHOD:	BS3900 Part A19
VOC CONTENT:	Essentially zero under normal conditions.		
VAPOUR DENSITY:	N/A		
SOLUBILITY IN WATER:	Immiscible		

10. STABILITY AND REACTIVITY

Stable under the recommended storage and handling conditions (see Section 7). In a fire, hazardous decomposition products such as smoke, acrolein, carbon monoxide, carbon dioxide, and oxides of nitrogen may be produced. Keep away from oxidising agents and strongly alkaline and strongly acidic materials to prevent the possibility of an exothermic reaction.
Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

There is no data available on the product itself. The product has been assessed by evaluation of its raw materials. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short term and long term exposure by oral, inhalation and dermal routes of exposure and eye contact. See Sections 3 and 15 for details of the resulting hazard classification. Splashes in the eye may cause irritation and reversible local damage. Based on the properties of the epoxy constituents and considering toxicological data on similar preparations, this preparation may be a skin sensitizer and an irritant. It contains low molecular weight epoxy constituents which are irritating to eyes, mucous membrane and skin. Repeated skin contact may lead to irritation and to sensitization, possibly with cross-sensitisation to other epoxies. Skin contact with the preparation and exposure to mist and vapour should be avoided.
Acute Oral Toxicity: LD50 (rat): >5,000mg/Kg. Acute Dermal Toxicity: LD50 (rabbit): 20,000mg/Kg.

12. ECOLOGICAL INFORMATION

There is no data available on the product itself. This product has been assessed by evaluation of its raw materials and is assessed for ecological hazards accordingly. See Sections 3 and 15 for details. The product should not be allowed to enter drains or watercourses or be deposited where it can affect ground or surface waters. Bisphenol A based liquid epoxy resins as well as many reactive diluents were classified as dangerous for the environment by the Association of Plastic Manufacturers in Europe (APME) based on available data and knowledge. When properly cured with appropriate curing agent this epoxy base is completely inert to the environment.

13. DISPOSAL CONSIDERATIONS

Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with local and federal regulations.

14. TRANSPORT INFROMATION

DOT Proper shipping description : NOT REGULATED FOR GROUND TRANSPORT

IMDG proper shipping description: Environmentally hazardous substance, liquid, n.o.s. (BisphenolA-Epicholorhydrin Liquid Epoxy resin, p-tertbutylphenyl glycidyl ether)
UN#: 3082
Hazard class: 9
Packing group: PG III
Ems#: F – A, S – F
Marine pollutant: Yes

IATA Proper shipping description: Environmentally hazardous substance, liquid, n.o.s. (BisphenolA-Epicholorhydrin Liquid Epoxy resin, p-tertbutylphenyl glycidyl ether)
UN#: 3082
Hazard class: 9
Packing Group: PG III
EmS#: F – A, S – F

15. REGULATORY INFORMATION

Danger Classifications
Irritant.
Contains
Bisphenol A liquid epoxy resin, p-tertbutylphenyl glycidyl ether and Poly(terephthaloylchloride/p-phenylenediamine).
Risk Phrases
Irritating to eyes and skin. May cause sensitisation by skin contact.
P Phrases
After contact with skin, wash immediately with plenty of soap and water. Wear suitable protective gloves and eye/face protection. Avoid contact with eyes. Avoid release to the environment. Refer to special instruction/Safety Data Sheet.
H Phrases
Do not breathe vapor. Contains epoxy constituents. See information supplied by the manufacturer (This information is provided by this Safety Data Sheet).
The information contained in this Safety Data Sheet does not constitute the user's own assessment of the workplace risks as required by other health and safety legislation.

16. OTHER INFORMATION

Text of any GHS phrases listed in Section 3

2-H315 – Level 2 Skin irritant
1-H317 – Level 1 Skin sensitizer
2-H319 – Level 2 eye irritant
2-411 – Level 2 Environmental hazard
4-413 – Level 4 Environmental hazard
HMIS ratings: Health: 2; Flammability: 1; Reactivity: 0.

Preparer: J. Longmore Refs: SUZ: rar TYU dd 8/19/11

1. IDENTIFICATION OF PRODUCT & COMPANY

PRODUCT REFERENCE	BF911-17038B
PRODUCT NAME	BIO – FIX ™ 911 Curing Agent – Black – EU
INTENDED USE	Anticorrosive coating component
DETAILS OF COMPANY	MyOilPatch Tel: 817-240-6434 (USA) Email: info@myoilpatch.com

2. HAZARDS IDENTIFICATION

HAZARD STATEMENTS:
H317-May cause an allergic skin reaction.
H315-causes skin irritation.
H319-Irritating to eyes and skin.
H411-Toxic to aquatic organisms in unreacted condition, may cause long term adverse effects in the aquatic environment (unmixed material only – ONCE MIXED THE MATERIAL IS HARMLESS TO ENVIRONMENT.)
H334-Do not breathe vapor or spray. May cause respiratory difficulties if inhaled.

PRECAUTIONARY STATEMENTS:
P261 – Avoid breathing mist/vapours/spray.
P264 – Wash hands and skin contact areas thoroughly after handling.
P272 – Contaminated clothing should not be allowed out of the work place.
P273 – Avoid release to the environment.(ONLY IN UNMIXED STATE)
P280 – Wear protective gloves, eye protection and face protection etc.
P301 – P315+P331
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P303 – P361+P352+P332:P313
P305–P338+P351 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
P304–P341
P333 + P313 if skin irritation or rash occurs: Get medical advice/attention.
P337 + P313 if eye irritation persists: Get medical advice/attention.
P362 – Take off contaminated clothing and wash before reuse.
P391 – Collect spillage.
P501 – Dispose of contents/container through a waste management company authorized by the local government.

SIGNAL WORD: WARNING

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances presenting a health or environmental hazard within the meaning of the CHIP Regulations or which are assigned Occupational Exposure Values.

Substance Name	Concentration Range (%)	GHS (*)	EINECS/ ELINCS No.	CAS No.
Mercaptan terminated polymer	75 – 90 %	H312, H315, H319, H411, H334.	Not Available	101359 – 87 – 9
2, 4, 6,- tri(dimethylaminomethyl)phenol	5 – 10%	P301-P315+P331 P303-P361+P352+P332:P313 P305–P338+P351	202 – 013 – 9	90 – 72 – 2
Poly(terephthaloylchloride/p-phenylenediamine .	0 – 5%	P304–P341	203 – 404 – 7	106 – 50 – 3

(*) for full text see Section 16

4. FIRST AID MEASURES

GENERAL	In all cases of doubt or when symptoms persist seek medical attention. Never give anything by mouth to an unconscious person.
INHALATION	Remove to fresh air, check for breathing and administer artificial respiration if necessary. Give nothing by mouth. If unconscious place in recovery position and seek medical advice. If conscious ensure the person sits or lies down. Obtain medical attention if ill effects occur.
EYE CONTACT	Remove contact lenses. Irrigate copiously with clean, fresh water for at least 15 minutes holding the eyelids apart, seek medical advice if effects occur.
SKIN CONTACT	Remove contaminated clothing and footwear. Wash skin thoroughly with soap and water or use a proprietary skin cleanser. Do NOT use solvents or thinners. Seek medical attention if irritation persists.
INGESTION	If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting. If conscious give 1 pint of fresh water to drink. If unconscious, check for breathing and give artificial respiration if necessary.

5. FIRE FIGHTING MEASURES

FLAMMABILITY CLASSIFICATON: Combustible IIIB

FLASH POINT:	>250°F
EXTINGUISHING MEDIA:	Carbon dioxide, foam, dry chemical, water fog.
NOT RECOMMENDED:	Water jet
UNUSUAL HAZARDS:	Combustion products may include, but are not limited to: phenolics, carbon dioxide, acrolein, and carbon dioxide.
SPECIAL FIREFIGHTING PROCEDURES:	Use protective firefighting clothing and positive pressure self-contained breathing apparatus to protect against potential harmful and/or irritating fumes. Do not use high pressure water since this may spread the area of the fire.

6. ACCIDENTAL RELEASE MEASURES

Exclude sources of ignition and ventilate area. Exclude non-essential personnel. Avoid breathing vapours. Refer to protective measures listed in Sections 7 and 8. Contain and collect spillages with non-combustible absorbent materials e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container for disposal in accordance with waste regulations (see Section 13).

Do not allow to enter drains or water courses. Clean preferably with a detergent, avoid use of solvents. If the product enters drains or sewers immediately contact the local water company; in the case of contamination of streams, rivers or lakes the relevant environmental agency.

Dispose of in accordance with applicable local and federal environmental control regulations.

7. STORAGE & HANDLING

HANDLING

Provide sufficient air exchange and/or exhaust in workrooms. Ensure adequate ventilation. Handle and open container with care. When using do not eat, drink or smoke.

STORAGE

Keep away from food, drink and animal feeding stuffs. Keep container tightly closed. Observe the label precautions. Store between 5 and 40°C in a dry well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorised access. Containers which are opened should be properly resealed and kept upright to prevent leakage. Store away from oxidising agents and strongly alkaline and acid materials. The principles contained in general guidance for storage of packaged potentially dangerous substances should be observed when storing this product.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING MEASURES

Provide additional forced ventilation if existing natural ventilation is insufficient. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of solvent vapour and/or particulates below the relevant Occupational Exposure Values, suitable respiratory protective equipment should be worn (see "Workplace Exposure Limits" below).

EXPOSURE LIMIT VALUES

Substance	TWA (1)		STEL (2)		Notations (3)
	ppm (4)	mg/m³ (4)	ppm (4)	mg/m³ (4)	
	None listed		None listed		

NOTES

(1) Long Term Exposure Limit - 8 hour Time Weighted Average.
(2) Short Term Exposure Limit - 15 minute reference period.
(3) 'Sk' indicates a risk of absorption through the skin. 'Sen' indicates a respiratory sensitizer.
(4) 'WEL' indicates Workplace Exposure Limit.

GENERAL PROTECTION	All personal protective equipment, including respiratory protective equipment, used to control exposure to hazardous substances must be selected to meet the requirements of the OSHA regulations.
RESPIRATORY PROTECTION	Air fed respiratory protective equipment should be worn when sprayed if exposure of the sprayer or other people nearby cannot be controlled to below the Occupational Exposure Values and engineering methods cannot reasonably be improved.
HAND PROTECTION	When skin exposure may occur, advice should be sought from glove suppliers on appropriate types and usage times for this product. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. Barrier creams may help to protect exposed areas of skin, but are not substitutes for full physical protection. They should not be applied after exposure has occurred.
EYE PROTECTION	Eye protection designed to protect against liquid splashes should be worn.
SKIN PROTECTION	Cotton or cotton/synthetic overalls or coveralls are normally suitable. Grossly contaminated clothing should be removed and the skin washed with soap and water or a proprietary skin cleaner. Regular skin inspection of users of this product is recommended. ALWAYS WASH YOUR HANDS BEFORE EATING, SMOKING OR USING THE TOILET. See Section 12 for detailed information.

9. PHYSICAL PROPERTIES

PHYSICAL STATE:	Black paste		
FLASH POINT:	>250°F	METHOD:	DIN 51758 (Pensky-Martins Closed Cup)
VISCOSITY:	25 – 50 Poise	METHOD:	BS3900 Part A7
SPECIFIC GRAVITY:	1.1Kgs/ Ltr.	METHOD:	BS3900 Part A19
VOC CONTENT:	Essentially zero under normal conditions.		
VAPOUR DENSITY:	N/A		
SOLUBILITY IN WATER:	Immiscible		

10. STABILITY AND REACTIVITY

Stable under the recommended storage and handling conditions (see Section 7). In a fire, hazardous decomposition products such as smoke, acrolein, carbon monoxide, carbon dioxide, and oxides of nitrogen may be produced. Keep away from oxidising agents and strongly alkaline and strongly acidic materials to prevent the possibility of an exothermic reaction.
Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

There is no data available on the product itself. The product has been assessed by evaluation of its raw materials. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short term and long term exposure by oral, inhalation and dermal routes of exposure and eye contact. See Sections 3 and 15 for details of the resulting hazard classification. Splashes in the eye may cause irritation and reversible local damage. Based on the properties of the epoxy constituents and considering toxicological data on similar preparations, this preparation may be a skin sensitizer and an irritant. It contains low molecular weight epoxy constituents which are irritating to eyes, mucous membrane and skin. Repeated skin contact may lead to irritation and to sensitization, possibly with cross-sensitisation to other epoxies. Skin contact with the preparation and exposure to mist and vapour should be avoided.

Acute Oral Toxicity: LD50 (rat): >5,000mg/Kg. Acute Dermal Toxicity: LD50 (rabbit): 20,000mg/Kg.

12. ECOLOGICAL INFORMATION

There is no data available on the product itself. This product has been assessed by evaluation of its raw materials and is assessed for ecological hazards accordingly. See Sections 3 and 15 for details. The product should not be allowed to enter drains or watercourses or be deposited where it can affect ground or surface waters. When properly cured with the appropriate epoxy base this curing agent is completely inert to the environment.

13. DISPOSAL CONSIDERATIONS

Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with local and federal regulations.

14. TRANSPORT INFORMATION

Transport within the user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of accident or spillage.

Onward transport, subsequent to purchase:

Proper Shipping Name:	AVIATION REGULATED LIQUID, N.O.S. (Mercaptan terminated polymer)
UN Number:	3334
Hazard Class:	9
Packing Group:	III
Sub Hazard Class:	9
Technical Name1 (NOS entries only):	
Technical Name 2 (NOS entries only):	
Marine Pollutant: (IMDG only)(Y/N):	
Flashpoint (IMDG only):	>200°F

15. REGULATORY INFORMATION

SARA Title III section 311/312 (40CFR370) : Acute health hazard
SARA Title III section 313 (40CFR372) : No reportable components
CERCLA status (40CFR302): no reportable quantity components
TSCA inventory status: Reported/included
Canadian DSL Status : reported/included
REACH Annex XIV (SVHC): No listed components
REACH Annex XIVII: No listed components
REACH status (EC 1907/2006): This material has been registered, pre-existed or is otherwise exempted from registration under the Registration, Evaluation and Authorisation of Chemical Substances.
Chemical safety assessment: Not available
The information contained in this Safety Data Sheet does not constitute the user's own assessment of the workplace risks as required by other health and safety legislation.

16. OTHER INFORMATION

Text of any P/H Phrases listed in section 3

H

May cause an allergic skin reaction.
causes skin irritation.
Irritating to eyes and skin.
Toxic to aquatic organisms in unreacted condition, may cause long term adverse effects in
the aquatic environment (unmixed material only – ONCE MIXED THE MATERIAL IS HARMLESS TO ENVIRONMENT.)

P

Avoid breathing mist/vapours/spray.
Wash hands and skin contact areas thoroughly after handling.
Contaminated clothing should not be allowed out of the work place.
Wear protective gloves, eye protection and face protection etc.
Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
Take off contaminated clothing and wash before reuse.
Dispose of contents/container through a waste management company authorized by the local government.HMIS ratings: Health: 2; Flammability: 1; Reactivity: 0.

Preparer: J. Longmore Refs: SUZ: rar TYU dd 8/19/11

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SAFETY DATA SHEET

Base Primer 1-Part A

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Base Primer 1-Part A
MFR'S NAME: Air Logistics Corporation, 925 North Todd Avenue, Azusa CA 91702
EMERGENCY PHONE: 800.424.9300 (CHEMTREC) **GENERAL INFORMATION**: 626.633.0294
USE OF THE SUBSTANCE: Surface primer used with AquaWrap™ products to improve adhesion of the composite repair for the repair of pipelines or other structures.

SECTION 2: HAZARDS IDENTIFICATION

OSHA/HCS status: No information available.

GHS Label Elements:

Hazard Pictograms:

Signal Word: Warning

Hazard Statements and GHS Classifications: (No classifications are available)
H303 May be harmful if swallowed.
H313 May be harmful in contact with skin.
H320 Causes eye irritation.

Precautionary Statements:

Prevention:
P264: Wash hands thoroughly after handling.
P270: Do not eat, smoke, or drink while using this product.
P280: Wear protective gloves/clothing, and eye/face protection.

Responses:
P302+352: IF ON SKIN: Wash with plenty of soap and water.
P333+313: If skin irritation or rash occurs, seek medical attention.
P362+364: Take off contaminated clothing, and wash separately before reuse.
P305+351+338: IF IN EYES: Rinse cautiously with water. Remove contact lenses, if present, and easy to do.
P337+313: If eye irritation persists, seek medical attention.
P301+330+331: IF SWALLOWED: Rinse mouth. Do not induce vomiting unless directed by medical personnel. Seek medical attention if irritation persists.
P304+340: IF INHALED: Remove person to fresh air, and keep comfortable for breathing.
P391: Collect spillage.

Storage:
P403+P233: Store in a well-ventilated place. Keep containers tightly closed.

Disposal: Material is not considered hazardous. Dispose of according to local, state, and/or federal regulations.

Other Hazards: None known. No Physical or Chemical Hazards classified under GHS.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture.

Ingredient	% by WT	CAS #	67/548/EEC	Regulation (EC) 1272/2008 (CLP)
Vegetable Oil Triglycerides	90%	8001-79-4	No Data Available.	No Data Available.
Chopped Fiberglass	9%	65997-17-3		

Occupational Exposure Limits, if available, are listed in Section 8.

SECTION 4: FIRST AID MEASURES

Description of necessary first aid measures:

General Get medical attention immediately for any person who is having trouble, not breathing, or any unconscious person. Provide oxygen or artificial respiration to a person if they have trouble breathing. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Place an unconscious person in a recovery position, maintain an open airway, and loosen tight clothing.

Inhalation N/A-no adverse health effects expected.

Skin Contact Remove contaminated clothing and shoes. Wash the affected area with plenty of soap and water. Get medical attention if irritation persists. Launder clothing before reuse.

Eye Contact Flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation persists.

Ingestion Wash out mouth with water. Remove dentures, if any. Remove victim to fresh air, and keep at rest in a position comfortable for breathing. If large amounts were ingested, give water to drink, and get medical advice.

Most Important Symptoms/Effects, Acute and Long –Term:

Potential Acute Health Effects:

Inhalation N/A

Skin Contact N/A

Eye Contact N/A

Ingestion May cause discomfort if swallowed.

Overexposure Signs/Symptoms:

Inhalation No specific data.

Skin Contact Adverse symptoms may include the following: Irritation, and/or Redness.

Eye Contact Adverse symptoms may include the following: Irritation, Watering, and/or Redness.

Ingestion No specific data.

Indication of Immediate Medical Attention and/or Special Treatment needed:

Notes to Physician Treat symptomatically.

Specific Treatments No specific treatment(s).

See also Toxicological Information in Section 11.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing Media Dry chemicals, water spray, foam, or carbon dioxide.

Unsuitable Media None known.

Specific Hazards Material is not considered a fire hazard, but will burn if ignited. Treat as an (edible fat) oil fire.

National Fire Protection Association (USA):

Labeling: No data available.

Hazardous Thermal Decomposition Products
Irritating or toxic substances may be emitted upon burning or decomposition. See **Section 10** for additional information.

Special Protective Actions for Firefighters
Promptly isolate the scene by removing all persons from the vicinity of the incident, if there is a fire. No action shall be taken involving any personal risk, or without suitable training. Limit spread of material.

Special Protective Equipment for Firefighters
Firefighters should wear appropriate protective equipment, and self-contained breathing apparatus (SCBA) with a full-face piece operated in a positive pressure mode. See **Section 9** for additional information.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures
Keep unauthorized persons away. Provide adequate ventilation, and avoid breathing vapors. Put on appropriate personal protective equipment (see **Section 8**). If spilled in an enclosed area, ventilate area, or use SCBA. Remove potential ignition sources.

Environmental Precautions
Avoid dispersal of material, and runoff, from contact with soil, waterways, drains, and/or sewers.

Methods and Materials for Containment and Cleaning Up (Small or Large Spill)
Stop leak, if possible, without risk. Move containers from spill area. Absorb spilled material with vermiculite, dry sand, or earth. Put into closed containers, store in a safe location, and dispose of via a licensed waste disposal contractor. Do not allow runoff into sewers or water sources

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling/Personal Hygiene
Use good laboratory/workplace procedures. Use appropriate personal protective equipment as per **Section 8**. Keep in the original container, or an approved alternative; keep containers tightly closed when not in use.

Keep away from heat, sparks, and open flame. Eating, drinking, and/or smoking should be prohibited where this material is being used. Workers should remove contaminated clothing/protective equipment, and wash hands and face before entering eating areas, and eating, drinking, and/or smoking.

Conditions for Safe Storage, including any Incompatibilities
Keep away from heat, sparks, and open flames. Store in sealed original containers, or approved alternatives, in a dry, well-ventilated area when not in use. Protect containers from direct sunlight. Do not allow to freeze, or exceed 40^0C (~110^0F). Do not reuse containers.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Occupational Exposure Limits

Ingredient	CAS#	Exposure Limits (ACGIH-TWA or ACGIH-STEL)
Vegetable Oil Triglycerides	8001-79-4	Not Available
Chopped Fiberglass	65997-17-3	

Appropriate Engineering Controls
Good general ventilation should be sufficient to control worker exposure to any airborne contaminants. If working in enclosed spaces, provide additional local ventilation. Eyewash fountains and safety showers are recommended, as well as good laboratory procedures and care.

Exposure controls

Respiratory Protection
If necessary, a properly-fitted vapor mask/respirator (organic vapor respirator), or SCBA should be used.

Hand Protection
Impervious, chemical-resistant gloves (such as nitrile rubber, PVC, etc. of .35mm thickness or similar) should be worn when handling this material. Contaminated gloves should be disposed of properly.

Body Protection
Chemically resistant long-sleeved shirts and long pants, or lab coats are recommended. Contaminated clothing should be washed separately from other clothes before reuse. Footwear appropriate for the work being performed should be worn, and cleaned carefully, if contaminated, before reuse. Heavily contaminated clothing or footwear should be disposed of properly.

Eye/Face Protection
Safety eyewear and face shields appropriate for the work being performed should be used. Ordinarily, this means a minimum of safety eyewear or splash goggles.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	**Color:**	N/A
Odor:	N/A	**Odor Threshold:**	N/A
pH	N/A	**Melting Point:**	N/A
Boiling Point:	>240^{0}C (500^{0}F)	**Flash Point:**	>227^{0}C (~441^{0}F)
Evaporation Rate:	N/A	**Vapor Pressure/Density:**	N/A
Relative Density	~.95	**Viscosity:**	N/A
Auto-Ignition Temp.	N/A	**Decomposition Temp.**	>200^{0}C

Solubility: Negligible.

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Not reactive. Will not undergo hazardous polymerization.

Chemical Stability: This product is stable under normal conditions.

Possibility of Hazardous Reactions: See "Reactivity" above for cautions.

Conditions to Avoid: Excessive heat and ignition sources.

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Thermal decomposition may produce smoke, oxides of carbon, hydrocarbons, and other products of incomplete combustion.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity

Product / Ingredient	LC_{50} Inhalation	LD_{50} Oral (Rat)	LD_{50} Dermal (Rabbit)
Vegetable Oil Triglycerides	N/A	N/A	N/A

Skin Corrosion / Irritation: N/A

Serious Eye Damage / Irritation: N/A

Respiratory or Skin Sensitization: N/A

Mutagenicity: No specific data. **Carcinogenicity:** No specific data.

Reproductive Toxicity: No specific data. **Teratogenicity:** No specific data.

Aspiration Hazard: No specific data.

Specific Target Organ Toxicity (Single and Repeated Exposure): No specific data.

Information on the Likely Routes of Exposure: Eyes, skin, inhalation, and ingestion.

Potential Acute Health Effects and Related Symptoms:

See **Section 4**.

Delayed, immediate and chronic effects from short and long term exposure:

No specific data.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity, Persistence and Degradability:

Product / Ingredient	LC_{50} 96 Hours (Fish)	EC_{50} 24 Hours (Daphnia)	IC_{50} 96 Hours (Bacteria)	Biodegradability
Vegetable Oil Triglycerides	N/A	N/A	N/A	N/A

Bioaccumulative Potential:

Ingredient	$LogP_{ow}$	BCF	Potential
Vegetable Oil Triglycerides	N/A	N/A	N/A

Mobility in Soil (soil / water partition coefficient-K_{OC}):
No specific data.

Other Adverse Effects: Other information is not available. No information is available regarding classification of materials as PBT or vPvB.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of unused contents (incineration) in accordance with national and local regulations. Dispose of container in accordance with national and local regulations. See **Section 8** for recommendations on the use of personal protective equipment.

SECTION 14: TRANSPORTATION INFORMATION

UN No's: DOT/TG: None IMDG: None ICAO: None

DOT / TDG Proper Shipping Name:

None.

Hazard Classes: DOT: Not Regulated. TDG: Not Regulated. IMDG: N/A ICAO: N/A

Hazard Labels: DOT: N/A TDG: N/A

Pack Groups: DOT: N/A IMDG: N/A AIR: N/A

Environmental Hazards: Marine Pollutant: No. **Hazardous Substance (USA):** No.

Transporting in Bulk according to Annex II of MARPOL 73/78 and the IBC Code: No specific data.

Surface Shipment within the US: Not regulated.

Label for Conveyance:

None.

SECTION 15: REGULATORY INFORMATION

INTERNATIONAL REGULATIONS:

International and US Inventory Lists

Canada Inventory (DSL)	Not listed.*	**EU-ELINCS**	Not listed.*
Canada Inventory (NDSL)	Not listed.*	**EU-EINECS**	Not listed*
US Toxic Substances Control Act (TSCA)	Not listed.*	**REACH, Annex XIV and Annex XVII**	Not listed*
Other	Not determined, no additional information is available.		

***Note:** There is no listing on the public inventory, no information is available, or the component has not been reviewed.

Substances of Very High Concern: No information is available.

Other Information: Substance is on the "right to know" lists of the following states: NJ, PA. Substance is not on the CA Prop 65 list of chemicals known to cause cancer.

SECTION 16: OTHER INFORMATION

ABBREVIATIONS:

ACGIH: American Conference of Governmental Industrial Hygienists
ADR/RID: European dangerous goods transport, road and rail, regulations
CAS: Chemical Abstract Service Registry
DOT: Department of Transportation (U.S.)
GHS: Globally Harmonized System of Classification and Labeling of Chemicals
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
IMDG: International Maritime Dangerous Goods code
OEL: Occupational Exposure Limits
OSHA: Occupational Safety and Health Administration (U.S.)
PEL: Permissible Exposure Limit
SDS: Safety Data Sheet
STEL: Short Term Exposure Limit (15 minute Time Weighted Average)
TDG: Canadian Transportation of Dangerous Goods Act and Regulations
TPQ: Threshold Planning Quantity
RQ: Reportable Quantity
UN: United Nations
U.S.: United States
N/A: Not available or not applicable.

Revision Date: 31 May 2015
Revision: 0
Reason for Revision: N/A

Notice:
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END OF SDS

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SAFETY DATA SHEET

Base Primer 1-Part B

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Base Primer 1-Part B Hardener
MFR'S NAME: Air Logistics Corporation, 925 North Todd Avenue, Azusa CA 91702
EMERGENCY PHONE: 800.424.9300 (CHEMTREC) **GENERAL INFORMATION**: 626.633.0294
USE OF THE SUBSTANCE: Hardener combined with Base Primer 1-Part A prepares surfaces for maximum adhesion with AquaWrap™ products for the repair of pipelines or other structures.

SECTION 2: HAZARDS IDENTIFICATION

OSHA/HCS status: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

GHS Label Elements:
Hazard Pictograms:


Signal Word: Warning! Danger!

Hazard Statements and GHS Classifications:

H315, H320:	Causes skin and eye irritation.	Category 2
H317:	May cause an allergic skin reaction.	Category 1
H334:	May cause sensitization of respiratory airways.	Category 1
H332:	Harmful if inhaled (mist).	Category 4
H335:	May cause respiratory irritation.	Category 3
H351:	Suspected of causing cancer (via inhalation).	Category 2

Precautionary Statements:

Prevention:
P260: Do not breathe fumes, vapors, mist, or spray.
P262: Avoid contact with eyes, skin, hair, or clothing.
P264: Wash hands thoroughly with soap and water 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 protective clothing, gloves, and eye protection.

Responses:
P301+P312: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call POISON CENTER, or doctor if you feel unwell.
P302+P352+P333+P313: IF ON SKIN: Rinse skin with water, and shower/wash with plenty of soap and water. If skin irritation or rash persists, get medical attention.
P362+P364: Take off contaminated clothing, and wash it before reuse.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present, and easy to do. Continue rinsing.

P337+F313: If eye irritation persists, get medical attention.
P391: Collect spillage.

Storage: P403+P233: Store in a well-ventilated place. Keep containers tightly closed.
P405: Store in a secure area.

Disposal: P501: Dispose of contents and containers in accordance with all local, regional, and international regulations.

Other Hazards: None known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

CHEMICAL NAME	% by WT	CAS NUMBER	67/548/EEC	Regulation (EC) 1272/2008 (CLP)
Polymeric Diphenylmethane Diisocyanate (P-MDI)	45-55%	9016-87-9	See GHS classifications above.	
4,4'-Diphenylmethane-Diisocyanate	35-45%	101-68-8		
MDI Isomers/oligomers	>5%	26447-40-5		

Occupational Exposure Limits, if available, are listed in Section 8.

SECTION 4: FIRST AID MEASURES

Description of necessary first aid measures:

General Get medical attention immediately for any person who is having trouble, not breathing, or any unconscious person. Provide oxygen or artificial respiration to a person if they have trouble breathing. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Place an unconscious person in a recovery position, maintain an open airway, and loosen tight clothing.

Inhalation Remove victim to fresh air, and keep warm and at rest, in a position comfortable for breathing. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. Get medical attention immediately.

Skin Contact Immediately remove contaminated clothing and shoes. Wash the affected area with plenty of soap and water until no evidence of the chemical remains (at least 15-20 minutes). Launder clothing before reuse. Get medical attention if irritation persists. Heavily soiled clothing or footwear should be soaked in water until material cures, and disposed of properly. Cured material is NOT hazardous.

Eye Contact Flush eyes with plenty of water, occasionally lifting the upper and lower eyelids, and rolling eyes in a circular motion. Check for, and remove any contact lenses. Continue to rinse for at least 15 minutes, or longer, if there is any indication that material remains in the eye. Get medical attention if irritation persists.

Ingestion Wash out mouth with water. Remove dentures, if any. Remove victim to fresh air, and keep at rest in a position comfortable for breathing. Give small amounts of water, unless nauseous. DO NOT induce vomiting. Get medical attention, if feeling unwell.

Most Important Symptoms/Effects, Acute and Long –Term:

Potential Acute Health Effects:

Inhalation Exposure to decomposition products may cause a health hazard. Serious effects may be delayed after exposure. Harmful if inhaled in high airborne concentrations.

Skin Contact May cause skin irritation. May cause an allergic skin irritation, or aggravate existing conditions through prolonged/repeated contact.

Eye Contact Irritating, and may cause redness and pain.

Ingestion May cause discomfort if swallowed.

Overexposure Signs/Symptoms:

Inhalation No specific data.

Skin Contact Adverse symptoms may include the following: Irritation, and/or Redness.

Eye Contact Adverse symptoms may include the following: Pain or Irritation, Watering, Redness.

Ingestion Coughing, pain, breathing difficulty.

Indication of Immediate Medical Attention and/or Special Treatment needed:

Notes to Physician Treat symptomatically.

Specific Treatments No specific treatment(s).

See also Toxicological Information in Section 11.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing Media Dry chemicals, foam, water spray, or carbon dioxide.

Unsuitable Media Water jet.

Specific Hazards Material is not considered a fire or explosion hazard, but will burn if ignited. Closed containers may rupture due to pressure build-up when exposed to extreme heat. Containers should be sprayed with water, if possible, to avoid this.

National Fire Protection Association (USA):

Labeling: Health: N/A Fire: N/A Reactivity: N/A

Hazardous Thermal Decomposition Products

Irritating or toxic substances may be emitted upon burning or decomposition. See **Section 10** for additional information.

Special Protective Actions for Firefighters

Promptly isolate the scene by removing all persons from the vicinity of the incident, if there is a fire. No action shall be taken involving any personal risk, or without suitable training.

Special Protective Equipment for Firefighters

Firefighters should wear appropriate protective equipment, and self-contained breathing apparatus (SCBA) with a full-face piece operated in a positive pressure mode, during the attack phase of firefighting operations. During cleanup, if area is poorly ventilated, SCBA should be used.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Keep unauthorized persons away. Provide adequate ventilation, and avoid breathing vapors. Put on appropriate personal protective equipment (see **Section 8**). If spilled in an enclosed area, ventilate area, or use SCBA. Remove potential ignition sources.

Environmental Precautions

Avoid dispersal of material, and runoff, from contact with soil, waterways, drains, and/or sewers.

Methods and Materials for Containment and Cleaning Up (Small or Large Spill)

Stop leak, if possible, without risk. Move containers from spill area. Absorb spilled material with vermiculite, dry sand, or earth. Put into open, or lightly covered containers. Soak the materials with water, and allow to cure for about one hour. Cured material is NOT hazardous. Dispose of in accordance with local, state, or other regulations. Clean spillage area with plenty of water.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling/Personal Hygiene

Use appropriate personal protective equipment as per **Section 8**. Keep in the original container, or an approved alternative; keep containers tightly closed when not in use.

Eating, drinking, and/or smoking should be prohibited where this material is being used. Workers should remove contaminated clothing/protective equipment, and wash hands and face before entering eating areas, and eating, drinking, and/or smoking.

Conditions for Safe Storage, including any Incompatibilities
Store in sealed original containers, or approved alternatives, in a dry, well-ventilated area when not in use. Protect containers from direct sunlight in a dry, cool, and well ventilated area between 15^0C 40^0C (~110^0F). Do not reuse containers.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Occupational Exposure Limits:

CHEMICAL NAME	CAS NUMBER	ACGIH TWA	OSHA PEL
Polymeric Diphenylmethane Diisocyanate (P-MDI)	9016-87-9	0.005 ppm	0.2 mg.m^3
4,4'-Diphenylmethane-Diisocyanate	101-68-8	0.005 ppm	0.2 mg.m^3
MDI Isomers/oligomers	26447-40-5	0.005 ppm	0.2 mg.m^3

Appropriate Engineering Controls
Good general ventilation should be sufficient to control worker exposure to any airborne contaminants. If working in enclosed spaces, provide additional local ventilation. Eyewash fountains and safety showers are recommended, as well as, good laboratory procedures and care.

Exposure controls

Respiratory Protection
If necessary, a properly-fitted vapor mask/respirator complying with organic vapor sorbents, and HEPA 100 particulate filter, or SCBA, should be used.

Hand Protection
Chemical-resistant (impervious) gloves (such as nitrile rubber of .35mm thickness or similar) should be worn when handling this material. Contaminated gloves should be disposed of properly.

Body Protection
Chemically resistant long-sleeved shirts and long pants, or lab coats are recommended. Contaminated clothing should be washed separately from other clothes before reuse. Footwear appropriate for the work being performed should be worn, and cleaned carefully if contaminated, before reuse. Heavily soiled clothing or shoes should be discarded after allowing the material to cure.

Eye/Face Protection
Safety eyewear and face shields appropriate for the work being performed should be used. Ordinarily, this means a minimum of safety eyewear, or splash goggles.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	**Color:**	Buff white
Odor:	Mild, musty	**Odor Threshold:**	0.4 mg/m^3
pH	N/A	**Melting Point:**	N/A
Boiling Point:	~210^0C (~410^0F)	**Flash Point:**	~199^0C (>390^0F)
Evaporation Rate:	N/A	**Vapor Pressure/Density:**	N/A/8.5 (Air=1)
Relative Density	N/A	**Viscosity:**	N/A
Auto-Ignition Temp.	N/A	**Decomposition Temp.**	N/A
Upper/Lower Flammability or Explosive Limits	N/A		

Solubility: Insoluble. Material hydrolyzes rapidly with exposure to water and becomes inert.
VOC Content: None.

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Exothermic reactions can occur with materials containing active hydrogen, such as bases, acids, amines, or alcohols. Reacts with water, forming CO_2, which may risk bursting closed containers. Reaction with water at less than 50^0C (106^0F) is slow, but accelerates at higher temperatures.

Chemical Stability: This product is stable under normal conditions.

Possibility of Hazardous Reactions: See "Reactivity" above for cautions.

Conditions to Avoid: High, or freezing temperatures.

Incompatible Materials: Strong acids, bases, amines, alcohols, and water.

Hazardous Decomposition Products: Thermal decomposition may produce smoke, oxides of carbon and nitrogen, isocyanate vapors, traces of hydrogen cyanide, and other products of incomplete combustion.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity

CHEMICAL NAME	LC_{50} INHALATION (RAT)	LD_{50} ORAL (RAT)	LD_{50} DERMAL (RABBIT)
Polymeric Diphenylmethane Diisocyanate (P-MDI)	Not available	>2,000 mg/kg	>9,400 mg/kg
4,4'-Diphenylmethane-Diisocyanate	>2,240 mg/m^3 (1 hour)	Not Available.	>10,000 mg/kg
MDI Isomers/oligomers	>2,240 mg/m^3 (4 hours)	>5,000 mg/kg	>5,000 mg/kg

Skin Corrosion/Irritation: Skin Irritation-Category 2

Serious Eye Damage/Irritation: Eye Irritation-Category 2

Respiratory or Skin Sensitization: Sensitization-Category 1

Mutagenicity: No specific data. **Carcinogenicity:** Material produced tumors via prolonged inhalation at severely irritating concentrations. These effects are not relevant to humans at occupational levels of exposure, and if material is used as intended.

Reproductive Toxicity: No effects shown. **Teratogenicity:** No effects shown.

Aspiration Hazard: No specific data. **Genotoxicity:** No effects shown.

Specific Target Organ Toxicity (Single and Repeated Exposure): May cause respiratory irritation with single exposure. May cause damage to organs with repeated exposure.

Information on the Likely Routes of Exposure: Eyes, skin, inhalation, and ingestion.

Potential Acute Health Effects and Related Symptoms:

See **Section 4**.

Delayed, immediate and chronic effects from short and long term exposure:

Some persons may become sensitized after chronic exposure, and may exhibit moderate to severe allergic reactions when exposed.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity:

CHEMICAL NAME	LC_{50} 96 Hours (Fish)	EC_{50} 24 Hours (Daphnia)	IC_{50} 96 Hours (Bacteria)
P-MDI	>1,000 mg/L	>1,000 mg/L	>1,000 mg/L
4,4'-Diphenylmethane-Diisocyanate	>1,000 mg/L	>500 mg/L	Not Available
MDI Isomers/oligomers	>1,000 mg/L	>500 mg/l	Not Available

Persistence and Degradability:
Material is not inherently degradable because it hydrolyzes in water to form a solid, inert, non-hazardous material.

Bioaccumulative Potential:
No information is available on any components. Significant accumulation in organisms is not anticipated.

Mobility in Soil:
No information is available on any components. Mobility in soil is limited because material cures with exposure to water in any form into a solid, inert, non-hazardous material.

Other Adverse Effects/Information: No other information is available. No ingredients meet the classification criteria as PBT or vPvB.

SECTION 13: DISPOSAL CONSIDERATIONS

Unused contents should be exposed to water or humidity, and allowed to cure. Cured material is non-hazardous, and should be disposed of in accordance with national and local regulations. Dispose of container in accordance with national and local regulations. Ensure the use of properly authorized waste management companies, where appropriate. See **Section 8** for recommendations on the use of personal protective equipment.

SECTION 14: TRANSPORTATION INFORMATION

UN No's: DOT/TG: N/A IMDG: N/A ICAO: N/A

DOT/TDG/UN Proper Shipping Name: LIQUID, CONTAINS ISOCYANATES. Not regulated in shipments of less than 2269 kg (5,000 lbs)

Hazard Classes: Not regulated in normal shipments.

Hazard Labels: Not regulated in normal shipments.

Pack Groups: Not regulated in normal shipments.

Environmental Hazards: **Marine Pollutant:** No. **Hazardous Substance (USA):** No.

Special Precautions for User: No information is available.

Transporting in Bulk per Annex II of MARPOL73/78 and IBC: No information is available.

Label for Conveyance:

N/A-none. Not regulated in normal shipments.

SECTION 15: REGULATORY INFORMATION

International and US Inventory Lists

Canada Inventory (DSL)	Not listed.*	**EU-ELINCS**	Not listed.*
Canada Inventory (NDSL)	Not listed.*	**EU-EINECS**	Not listed.*
US Toxic Substances Control Act (TSCA)	Components are listed.	**REACH, Annex XIV and Annex XVII**	Not listed.*

Substances of Very High Concern: None of the components are listed.

Other Information: Titanium Dioxide (CAS13463-67-7) (TiO_2) is on the "right to know" (RTK) lists of the following states: MA, NJ, PA, RI and CA. TiO_2 is a Prop 65 chemical if airborne and respirable. In this application, TiO_2 is bound in the product matrix and excluded from the list. P-MDI and 4,4'-Diphenylmethane-Diisocyanate are on the RTK lists of the following states: MA, NJ, PA. MDI Isomers/oligomers (CAS 26447-40-5) is on the RTK list of NJ.

SECTION 16: OTHER INFORMATION

ABBREVIATIONS:
ACGIH: American Conference of Governmental Industrial Hygienists
ADR/RID: European dangerous goods transport, road and rail, regulations
CAS: Chemical Abstract Service Registry
DOT: Department of Transportation (U.S.)
GHS: Globally Harmonized System of Classification and Labeling of Chemicals
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
IMDG: International Maritime Dangerous Goods code
OEL: Occupational Exposure Limits
OSHA: Occupational Safety and Health Administration (U.S.)
PEL: Permissible Exposure Limit
SDS: Safety Data Sheet
STEL: Short Term Exposure Limit (15 minute Time Weighted Average)
TDG: Canadian Transportation of Dangerous Goods Act and Regulations
TPQ: Threshold Planning Quantity
RQ: Reportable Quantity
UN: United Nations
U.S.: United States
N/A: Not available or not applicable.

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Reason for Revision: N/A

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END OF SDS

1. IDENTIFICATION OF PRODUCT & COMPANY

PRODUCT REFERENCE	POLYOLEFIN MICRO FIBERS	
PRODUCT NAME	POLYOLEFIN MICRO FIBERS	
INTENDED USE	Thickening fibers for epoxy coatings	
DETAILS OF COMPANY	MyOilPatch 2506 Axminster Grand Prairie, TX 75050	(USA) 817-240-6434 VOICE

2. HAZARDS IDENTIFICATION

HAZARD STATEMENTS:	
Hazard Classification of Chemical:	NOT APPLICABLE
Signal Word:	NOT APPLICABLE
Hazard Statements:	NOT APPLICABLE
Required Pictograms:	NOT APPLICABLE
Precautionary Statements:	NOT APPLICABLE
Description of Other Hazards not otherwise Classified:	NONE KNOWN
Consideration of Hazardous Mixtures:	NOT APPLICABLE

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances presenting a health or environmental hazard within the meaning of the CHIP Regulations or which are assigned Occupational Exposure Values.

Substance Name	**Concentration Range (%)**	**GHS (*)**	**EINECS/ ELINCS No.**	**CAS No.**
Polyethylene (Ethene, homopolymer)	99 - 100 %	None		9002-88-4

(*) for full text see Section 16

4. FIRST AID MEASURES

INHALATION	In all cases of doubt or when symptoms persist seek medical attention. Never give anything by mouth to an unconscious person. Remove to fresh air, check for breathing and administer artificial respiration if necessary. Give nothing by mouth.
EYE CONTACT	Remove contact lenses. Irrigate copiously with clean, fresh water for at least 15 minutes holding the eyelids apart, seek medical advice if effects occur.
SKIN CONTACT	Remove contaminated clothing and footwear. Wash skin thoroughly with soap and water or use a proprietary skin cleanser. Do NOT use solvents or thinners. Seek medical attention if irritation persists.
INGESTION	If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting. If conscious give 1 pint of fresh water to drink. If unconscious, check for breathing and give artificial respiration if necessary.

5. FIRE FIGHTING MEASURES

FLASH POINT:	>200°F
EXTINGUISHING MEDIA:	Carbon dioxide, foam, dry chemical, water fog.
NOT RECOMMENDED:	Water jet
UNUSUAL HAZARDS:	Combustion products may include, but are not limited to: carbon monoxide and carbon dioxide.
SPECIAL FIREFIGHTING PROCEDURES:	Use protective firefighting clothing and positive pressure self-contained breathing apparatus to protect against potential harmful and/or irritating fumes. Do not use high pressure water since this may spread the area of the fire.

6. ACCIDENTAL RELEASE MEASURES

Exclude non-essential personnel. Avoid breathing vapors.
Avoid the use of air jets if possible, use vacuums or brushes to sweep and place in receptacles.

7. STORAGE & HANDLING

HANDLING

Provide sufficient air exchange and/or exhaust in workrooms. Ensure adequate ventilation. When using do not eat, drink or smoke.

STORAGE

Keep away from food, drink and animal feeding stuffs. Observe the label precautions. Store between 5 and 40°C in a dry well ventilated place away from sources of ignition. Containers which are opened should be properly resealed. Store away from oxidising agents and strongly alkaline and acid materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING MEASURES

Product should be considered a nuisance dust, i.e. particulates not otherwise classified.

EXPOSURE LIMIT VALUES

Substance	TWA (1)	OSHA PEL	Notations (3)
	10 mg/M3 total dust 3 mg/M3 respirable	15 mg/M3 total dust 5 mg/M3 respirable	

GENERAL PROTECTION	All personal protective equipment, including respiratory protective equipment, used to control exposure to hazardous substances must be selected to meet the requirements of the OSHA regulations. Glove material is not specified
RESPIRATORY PROTECTION	
EYE PROTECTION	Local exhaust ventilation may be used to reduce exposure to airborne particles. A dust mask and goggles are recommended when necessary to prevent irritation from airborne particles. Goggles or gloves if eye or excessive skin contact is possible.
SKIN PROTECTION	

9. PHYSICAL PROPERTIES

PHYSICAL STATE:	White fluffy particles
ODOR:	No significant odor
ODOR THRESHHOLD:	Not available – no odor
pH:	Not available
MELTING POINT:	135°C/275°F
INIT. BOILING PT & RANGE	Not Applicable
FLASH POINT:	>200°C/392°F
VISCOSITY:	Solid – Not Applicable
SPECIFIC GRAVITY:	0.96 Kg/ Ltr.
UEL/LEL limits	Not Applicable
VAPOR PRESSURE:	Not Applicable
SOLUBILITY:	Not soluble in water
VAPOR DENSITY:	Not Applicable
AUTO-IGNITION TEMP.	Not Available
DECOMPOSITION TEMP.	Not Available

10. STABILITY AND REACTIVITY

Stable under the recommended storage and handling conditions (see Section 7). In a fire, hazardous decomposition products such as smoke, organic acids, carbon monoxide and carbon dioxide produced. Hazardous polymerization will not occur. If a sufficient concentration of particles become airborne during processing, handling or by other means, product may form a combustible dust in air. Avoid contact with strong oxidizers.

11. TOXICOLOGICAL INFORMATION

There is no data available on the product itself. The product has been assessed by evaluation of its raw materials. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short term and long term exposure by oral, inhalation and dermal routes of exposure and eye contact.
Skin absorption is not known to occur. No chronic effects from short-term exposures are known to occur.
Acute toxicity: Oral, (rat) >3g/Kg; Oral, (mouse) >5g/Kg.
Symptoms of respiratory irritation may include coughing, sneezing or irritation of the nasal passages.
Ingestion of large amounts of particles may cause gastro-intestinal blockage, which can cause stomach distress.
Symptoms of eye irritation may include itching, watering, or redness of the eyes.
NTP: Not Listed. IARC: 3 – not classified as to carcinogenicity in humans. OSHA: Not regulated.

12. ECOLOGICAL INFORMATION

Material is recognized as being non-biodegradable. Environmental toxicity data is not available however polyethylene is generally recognised as not being a toxic environment hazard.

13. DISPOSAL CONSIDERATIONS

Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Dispose of in accordance with governmental regulations for non-hazardous solid waste.

14. TRANSPORT INFORMATION

DOT Proper shipping description : NOT REGULATED FOR GROUND TRANSPORT
IMDG proper shipping description: POLYETHYLENE PULP, NOT REGULATED
Hazard class:
Packing group:
Ems#:
Marine pollutant: NO
IATA Proper shipping description: POLYETHYLENE PULP, NOT REGULATED.
Hazard class:
Packing Group:
EmS#:
Additional information:

15. REGULATORY INFORMATION

ARA Title III section 311/312 (40CFR370) : POLYETHYLENE PULP, NOT REGULATED
SARA Title III section 313 (40CFR372) : No reportable components
CERCLA status (40CFR302): no reportable quantity components
TSCA inventory status: Reported/included
Canadian DSL Status : reported/included
Chemicals known to the state of California to cause cancer or reproductive toxicity: POLYETHYLENE PULP, NOT REGULATED
REACH Annex XIV (SVHC): No listed components
REACH Annex XIVII: No listed components
REACH status (EC 1907/2006): This material has been registered, pre-existed or is otherwise exempted from registration under the Registration, Evaluation and Authorisation of Chemical Substances.
Chemical safety assessment: Not available. The information contained in this Safety Data Sheet does not constitute the user's own assessment of the workplace risks as required by other health and safety legislation.

16. OTHER INFORMATION

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Preparer: J. Longmore Refs: SUZ: SS#SDS-26-01 dd:UNK