Safety Data Sheet

I. Product and Company Identification

PRODUCT:	ISO-FLEX DUAL CARTRIDGE EPOXY #5 PART A
MANUFACTURER:	LymTal International, Inc. 4150 S. Lapeer Rd. Orion, MI 48359 www.lymtal.com For Non-Emergency Questions, Hours 8AM To 4PM Eastern Standard Time (248) 373-8100
EMERGENCY CONTACT:	24-Hour Chemtrec (800)424-9300
	Chemtrec, D.C. Area (800)483-7616
II. Hazards Identificatior	
Classification of the Substance	ce or Mixture:
Chronic Aquatic Er	nvironmental Hazard, CAT 2



Skin Corrosion/Irritation, CAT 2; Eye Irritation/Damage, CAT 2A; Skin Sensitization, CAT 1

Signal Word:

WARNING

Hazard Statements:

- H315 Causes Skin Irritation
- H317 May Cause An Allergic Skin Reaction
- H319 Causes Serious Eye Irritation
- H401 Toxic to Aquatic Life
- H411 Toxic To Aquatic Life With Long Lasting Effects

Skin Corrosion/Irritation Cat 2 Skin Sensitizer, Cat 1 Eye Damage/Irritation, Cat 2A Acute Aquatic Environmental Hazard, Cat 2

Long term Aquatic Environmental Hazard, Cat 2

Precautionary Statements:

P102	Keep Out Of Reach Of Children
P103	Read Label Before Use
P201	Obtain Special Instruction Before Use
P202	Do Not Handle Until All Safety Precautions Have Been Read and Understood
P260	Do Not Breathe Dust/Fume/Gas/ Mist/Vapors/Spray
P264	Wash Thoroughly After Handling
P270	Do Not Eat/Drink/Smoke While Using This Product
P271	Use Only Outdoors Or In A Well Ventilated Area
P272	Contaminated Work Clothing Should Not Be Allowed Out Of The Workplace
P273	Avoid Release To The Environment
P280	Wear Protective Gloves/Protective Clothing/Eye Protection/Face Protection

P285 P301+P330+P331	In Case If Inadequate Ventilation: Wear Respiratory Protection If Swallowed: Rinse Mouth. Do Not Induce Vomiting.
P303+P361+P353	If On Skin(Or Hair): Remove/Take Off Immediately All Contaminated Clothing, Rinse Skin With Water/Shower
P304+P340	If Inhaled: Remove Person To Fresh Air And Keep 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.
P308+P313	If Exposed Or Concerned: Get Medical Advice/Attention.
P312	Call A Poison Center Or Doctor/Physician If You Feel Unwell.
P314	Get Medical Advice/Attention If You Feel Unwell.
P332+P313	If Skin Irritation Occurs, Get Medical Advice/Attention
P363	Wash Contaminated Clothing Before Reuse
P337+P313	If Eye Irritation Persists: Get Medical Advice Attention
P342+P311	If Experiencing Respiratory Symptoms: Call A Poison Center Or Doctor
P362+P364	Take Off Contaminated Clothing And Wash It Before Reuse.
P370+P378	In Case Of Fire: Use Appropriate Method To Extinguish.
P391	Collect Spillage
P403+P233	Store In A Well Ventilated Place. Keep Container Tightly Closed
P405	Store Locked Up
P501	Dispose Of Contents/Container In Accordance With Local/Regional/National/International/
	Regulations

III. Composition/Information on Ingredients

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). Where a proprietary ingredient is shown, the identity may be made available as provided in this standard. All components of this product are included in the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

Ingredients:	<u>CAS #:</u>	CONTENT
Bisphenol-a-(Epichlorhydrin) and Epoxy Resin	25068-38-6	60-70%
(2-Ethylhexyl) Oxy (Methy) Oxirane	2461-15-6	6-8%
Titanium Dioxide	13463-67-7	1-2%
Silica, Amorphous, Fumed, Cryst-Free	112945-52-5	1-2%
Calcium Carbonate	471-34-1	20-30%

California Proposition 65 ingredients

None

Section 313 Supplier Notification

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right to Know Act of 1986 (40CFR372)

None

Inhalation	Move exposed to fresh air. Give artificial respiration if necessary. If breathing is difficult give oxygen. Loosen clothing and place exposed in a comfortable position.
<u>Eyes</u>	Seek medical attention. Drench the affected area immediately with plenty of water. Protect unexposed eye. Flush exposed eye gently using water for 15-20 minutes. Remove contact lenses while rinsing.
<u>Skin</u>	Wash hands and exposed skin with soap and plenty of water for 15-20 minutes. Remove contaminated clothing. Seek medical attention if irritation, rash or other adverse conditions occur.
Ingestion	Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention.

Most important symptoms and effects, both acute and delayed Shortness of breath, headache, nausea, dizziness, irritation-all routes of exposure. Acute pneumoconiosis or silicosis from overwhelming exposure to crystalline silica dust has occurred. Lungs may be affected by repeated or prolonged exposure to fibers, resulting in fibrosis. This substance is possible carcinogenic to humans. Persons with impaired respiratory function may be more susceptible to the effects of this substance. Smoking can increase the risk of lung injury.

Indication of any immediate medical attention and special treatment needed. If seeking medical attention provide SDS document to physician. Physician should treat symptomatically.

V. Fire Fighting Methods

Extinguishing media

Suitable extinguishing agents:

Use water, dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam Unsuitable extinguishing agents: None

Advice for firefighter:

Protective equipment: Wear protective eyewear, gloves, and clothing. Refer to section additional information (precautions)

Avoid inhaling gases, fumes, dust, mist, and aerosols. Avoid contact with skin, eyes and clothing.

VI. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation and use appropriate personal protection equipment, avoid breathing mist, vapors, and spray, avoid contact with skin, eyes and clothing, and keep unnecessary and unprotected personnel from entering the involved area. Ensure that air-handling systems are operational.

Environmental precautions:

Should not be released into environment. Prevent from reaching drains, sewer, or waterway.

Methods and material for containment and cleaning up:

Soak up with inert absorbent material and dispose of as hazardous waste. Wear protective eye wear, gloves and clothing. Refer to section 8. Always obey local regulations. If necessary use trained response staff or contractor. Evacuate personnel to safe areas. Containerize for disposal. Refer to section 13. Keep in suitable closed containers for disposal.

Reference to other sections:

For more information on exposed controls, personal protection and disposal, review data in section 8 and section 13 of the SDS.

VII. Handling And Storage

Conditions for safe storage, including any incompatibilities:

Store in a cool location. Keep away from food and beverages. Protect from freezing and physical damage. Provide ventilation for containers. Keep container tightly sealed, store away from incompatible materials. Recommended storage temperature: 10-35°C (50-95°F).

VIII. Exposure Controls / Personal Protection

Recommended Monitoring: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory equipment. Reference can be made of European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents for the determination of hazardous substance.

Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mist below the applicable workplace exposure limits indicated above. (occupational Exposure-OELS)

Respiratory Protection: Not required under normal conditions of use. Where risk assessment shows airpurifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN143) respirator cartridges as a backup to engineering controls. When necessary use NIOSH approved breathing equipment.

Protection of Skin: Select glove material impermeable and resistant to the substance. Select glove material based on rates of diffusion and degradation. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Use proper glove removal technique without touching outer surface. Avoid skin contact with used gloves. Wear protective clothing.

Eye Protection: Face shield (8-inch minimum) with tightly fitting safely goggles are appropriate eye wear. Wear equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

General Hygienic Measures: Perform routine housekeeping. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes, and clothing. Before rewashing wash contaminated clothing.

IX. Physical And Ch	emical Properties		
Appearance (physical	White Thixotroa	Explosion limit lower:	Not determined
state, color):		Explosion limit upper:	Not determined
Odor:	Slight Sweet odor	Vapor Pressure @ 20°:	Not determined
Odor Threshold:	Not determined	Vapor Density:	Not determined
PH-value:	App. Neutral (1:1 in water)	Relative Density:	1.34
Melting/Freezing Point:	Not determined	Solubilities:	Insoluble in water
Boiling Point/Range:	>260° C (500° F)	Partition Coefficient:	Not determined

X. Stability And Reactivity

Reactivity: Nonreactive under normal conditions

Chemical Stability: Stable under normal conditions. Upon prolonged storage the material may crystallize which is a reversible condition: crystallized material can be liquefied back by heating slowly to 50° C for 6-24 hours.

Possible Hazardous Reactions: Masses of more than one pound (0.5 kg) product plus an aliphatic amine will cause irreversible polymerization with considerable heat build-up. Material will polymerize in contact with Sodium Hydroxide.

Conditions to Avoid: Avoid elevated temperatures, potentially violent decomposition can occur above 350°C.

Incompatible Materials: Acids, Bases, Oxidizing Agents, Hydrogen Fluoride, Acetylene and Ammonia.

Hazardous Decomposition Products: 25068-38-6: Strong Oxidizing, Acids, Amines, and Bases

XI. Toxicity Information

Chronic Toxicity: 13463-67-7 LC50 inhalation rat-male-4h>6.82 mg/L

Inhalation: May cause respiratory irritation

Skin Corrosion/Irritation: (guinea pig) Causes allergic skin reactions 1408-60-7

Serious Eye Damage/Irritation: (rabbit) Causes serious eye irritation, corneal injury is not likely

Respiratory or Skin Sensitization: May cause skin sensitization in some individuals

Carcinogenicity: N/A, Not listed by IARC, NTP, OSHA

Reproductive Toxicity: No additional information

STOT-Single and Repeated Exposure: 2461-15-6: Inhalation-may cause respiratory irritation.

Additional toxicological information: No additional information

XII. Ecological Information

Ecotoxicity: 2461-15-6: LC50-Carassius (goldfish)-14mg/l-24h

13463-67-7: LC50-other fish->1,000 mg/l-48h

13463-67-7: EC50-Daphnia magna(water flea)->1,000 mg/l-48h

Persistence and Degradability:

25068-38-6: Result-According to the results of test of biodegradability this product is not readily biodegradable.

1217-11-7: Long term degradation products may arise.

Bioaccumulative Potential: BCF=31, Log Pow=3 (low potential to Bioaccumulate in aquatic organisms)

Mobility in Soil: Not additional Information

Other Adverse Effects: No Additional Information

XIII. Disposal Considerations

Waste Disposal Recommendations: Contact a licensed professional waste disposal service to dispose of this material. Dispose of empty containers as usual product. Product or container must not be disposed together with household garbage. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Chemical waste generators must also consult local, regional, and national hazardous waste regulations. Ensure complete and accurate classification. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

XIV. Transport Information DOT SHIPPING INFORMATON

DOT Proper Shipping Name **NOT REGULATED** DOT Hazard Class DOT I.D Number

Label(s)

XV. Regulatory Information United States (USA) SARA Section 311/312 (40CFR370): Acute health hazard SARA Section 313 (Specific toxic chemical listings): None of the ingredients are listed RCRA (Hazardous waste code): None of the ingredients are listed. TSCA (Toxic substance control act) All ingredients are listed. CERCLA(Comprehensive Environmental Response, Compensation, an Liability Act): None of the ingredients are listed. Proposition 65 (California): Chemicals known to cause cancer: None of the ingredients are listed. Chemicals known to cause reproduction toxicity of females: None of the ingredients are listed. Chemicals known to cause reproduction toxicity of males: None of the ingredients are listed. Chemicals known to cause developmental toxicity: None of the ingredients are listed.

Canada Canadian Domestic Substance List (DSL)

None of the ingredients are listed.

XVI. Other Information

THE INFORMATION HEREIN HAS BEEN COMPLIED FROM SOURCES BELIEVED TO BE RELIABLE AND IS ACCURATE TO THE BEST OF OUR KNOWLEDGE. HOWEVER, LymTal INTERNATIONAL INC. CANNOT GIVE ANY GUARANTEES REGARDING INFORMATION FROM OTHER SOURCES, AND EXPRESSLY DOES NOT MAKE ANY WARRANTIES, NOR ASSUMES ANY LIABILITY, FOR ITS USE.

Date of Preparation/ Last Revision: 03/21/2016

Safety Data Sheet

I. Product and Company Identification

PRODUCT:	ISO-FLEX DUAL CARTRIDGE EPOXY #5 PART B
MANUFACTURER:	LymTal International, Inc. 4150 S. Lapeer Rd. Orion, MI 48359 www.lymtal.com For Non-Emergency Questions, Hours 8AM To 4PM Eastern Standard Time (248) 373-8100
EMERGENCY CONTACT:	24-Hour Chemtrec (800)424-9300 Chemtrec, D.C. Area (800)483-7616

II. Hazards Identification

Classification of the Substance or Mixture:



Skin Sensitization, CAT 1; Acute Toxicity, CAT 4, Oral, Dermal, Inhalation; STOT Single Exposure, CAT 3, RTI



Skin Corrosion/Irritation-Skin Irritation, CAT 1B; Eye Damage/Irritation, CAT 1;



Reproduction Toxicity, CAT 2; Carcinogenicity, CAT 2

Signal Word:

DANGER

Hazard Statements:

H302	Harmful If Swallowed	Acute Toxicity, Cat 4, Oral
H312	Harmful If Contact With Skin	Acute Toxicity, Cat 4, Dermal
H314	Causes Severe Skin Burns And Eye Damage	Skin Corrosion/Irritation, Cat 1B
H317	May Cause An Allergic Skin Reaction	Skin Sensitizer, Cat 1
H318	Causes Serious Eye Damage	Eye Damage/Irritation, Cat 1
H332	Harmful If Inhaled	Acute Toxicity, Cat 4 Inhale
H335	May Cause Respiratory Irritation	STOT Single Exposure, Cat 3, RTI
H351	Suspected Of Causing Cancer	Carcinogenicity, Cat 2
H361	Suspected Of Damaging Fertility Or	
	The Unborn Child	Reproduction Toxicity, Cat 2

Precautionary	Statements:
P102	Keep Out Of Reach Of Children
P103	Read Label Before Use
P201	Obtain Special Instructions Before Use
P202	Do Not Handle Until All Safety Precautions Have Been Read And Understood
P261	Avoid Breathing Vapors/Mist/Gas/Spray
P262	Do Not Get In Eyes, On Skin Or On Clothing
P264	Wash Thoroughly After Handling
P270	Do Not Eat/Drink/Smoke While Using This Product
P271	Use Only Out doors Or In A Well Ventilated Area
P272	Contaminated Work Clothing Should Not Be Allowed Out Of the Workplace
P273	Avoid Release To The Environment
P280	Wear Protective Gloves/Protective Clothing/Eye Protection/Face Protection
P301+P330+P331	If Swallowed: Rinse Mouth. Do Not Induce Vomiting
P303+P361+P353	If On Skin (Or Hair): Remove/Take Off Immediately All Contaminated Clothing,
	Rinse Skin With Water/Shower.
P304+P340	If Inhaled: Remove Person To Fresh Air And Keep 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.
P308+P313	If Exposed Or Concerned: Get Medical Advice/Attention
P310	Immediately Call A Poison Center Or Doctor/Physician
P312	Call A Poison Center Or Doctor/Physician If You Feel Unwell.
P314	Get Medical Advice/Attention If You Feel Unwell
P333+P313	If Skin Irritation Or Rash Occurs, Get Medical Advice/Attention
P337+P313	If Eye Irritation Persists: Get Medical Advice Attention
P342+P313	If Experiencing Respiratory Symptoms, Get Medical Advice/Attention
P362	Take Off Contaminated Clothing And Wash Before Reuse
P403+P233	Store In A Well Ventilated Place. Keep Container Tightly Closed
P405	Store Locked Up
P501	Dispose Of Contents/Container In Accordance With Local/Regional/National/International/ Regulations

III. Composition/Information on Ingredients

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). Where a proprietary ingredient is shown, the identity may be made available as provided in this standard. All components of this product are included in the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

Ingredients:	<u>CAS #:</u>	CONTENT
Nonylphenol	84852-15-3	25-35%
2-Piperazin-1-Ylethylamine	140-31-8	15-20%
Calcium Carbonate	471-34-1	40-60%
Fumed Silica	112945-52-5	1-3%

California Proposition 65 ingredients

None

Section 313 Supplier Notification

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right to Know Act of 1986 (40CFR372)

Nonylphenol

84852-15-3

25-35%

IV. First Aid Measures

Inhalation	Move exposed to fresh air. Give artificial respiration if necessary. If breathing is difficult give oxygen. Loosen clothing and place exposed in a comfortable position.
Eyes	Seek medical attention. Protect unexposed eye. Flush exposed eye gently using water for 15-20 minutes. Remove contact lenses while rinsing.
<u>Skin</u>	Wash hands and exposed skin with soap and plenty of water. Rinse/flush exposed skin gently using soap and water for 15-20 minutes. Seek medical attention if discomfort or irritation persists. Wash away any material which may have contacted the body with copious amounts of water or soap.
Ingestion	Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention.
Most important symptoms and effects, both acute and delayed	Shortness of breath, headache, nausea, dizziness, irritation-all routes of exposure. Acute pneumoconiosis or silicosis from overwhelming exposure to crystalline silica dust has occurred. Lungs may be affected by repeated or prolonged exposure to fibers, resulting in fibrosis. This substance is possible carcinogenic to humans. Persons with impaired respiratory function may be more susceptible to the effects of this substance. Smoking can increase the risk of lung injury.
	Indication of any immediate medical attention and special treatment needed. If seeking medical attention provide SDS document to physician. Physician should treat symptomatically.

V. Fire Fighting Methods

Extinguishing media

Suitable extinguishing agents:

Use water spray to knock-down vapors, dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam. Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition. If large quantities of combustibles are involved, use water in flooding quantities as spray and fog. Use water spray to knock-down vapors.

Unsuitable extinguishing agents: Do not use water on material itself, water or foam may cause frothing. Do not use water jet.

Advice for firefighter:

Protective equipment: Wear protective eyewear, gloves, and clothing. Refer to section additional information (precautions)

Avoid inhaling gases, fumes, dust, mist, and aerosols. Avoid contact with skin, eyes and clothing.

Additional Information:

If material not on fire and not involved in fire: keep sparks, flames and other sources of ignition away. Keep material out of water sources and sewers. Build dikes to contain flow as necessary. Avoid inhaling gases, fumes, dust, mist, vapor, and aerosols. Avoid contact with skin, eyes and clothing. Move product containers away from fire or keep cool with water spray as a protective measure, where feasible. Avoid generating dust, fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

VI. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Water4 spill: Neutralize with agricultural lime (CaO), crushed limestone (CaCO3) or sodium bicarbonate (naHCO3). If dissolved, in region of 10 ppm or greater concentration, apply activated carbon at ten times the spill amount. Land spill: Dig a pit, pond lagoon, holding area (should be sealed with an impermeable flexible membrane liner) to contain liquid or solid material. Dike surface flow using soil, sand bags, foamed polyurethane, or foamed concrete. Absorb bulk liquid with fly ash or cement powder. Neutralize as noted for water spill. Ensure adequate ventilation. Ensure that air-handling systems are operational.

Environmental precautions:

Should not be released into environment. Prevent from reaching drains, sewer, or waterway. Collect contaminated soil for characterization per section 13.

Methods and material for containment and cleaning up:

Sweep up and shovel. Soak up with inert absorbent material and dispose of as hazardous waste. Wear protective eye wear, gloves and clothing. Personal protection: P2 filter respirator for harmful particles. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersals of dust in the air (i.e. clearing dust surfaces with compressed air). Collect solids in powder form using vacuum with HEPA filter. Do not handle broken packages unless wearing appropriate chemical protective equipment. Wash away any material which may have contacted the body with copious amounts of water and soap. Refer to section 8. Always obey local regulations. If necessary use trained response staff or contractor. Evacuate personnel to safe areas. Containerize for disposal. Refer to section 13. Keep in suitable closed containers for disposal. Sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Reference to other sections: None

VII. Handling And Storage

Conditions for safe storage, including any incompatibilities:

Store in a cool location. Keep away from food and beverages. Protect from freezing and physical damage. Provide ventilation for containers. Keep container tightly sealed, store away from incompatible materials. Avoid storage near extreme heat, ignition sources or open flame.

VIII. Exposure Controls / Personal Protection

Recommended Monitoring: Ensure that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosive relief vents or an explosive suppression system or an oxygen deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e. there is no leakage from the equipment). Use under a fume hood.

Respiratory Protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN143) respirator cartridges as a backup to engineering controls. When necessary use NIOSH approved breathing equipment.

Protection of Skin: Select glove material impermeable and resistant to the substance. Select glove material based on rates of diffusion and degradation. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Use proper glove removal technique without touching outer surface. Avoid skin contact with used gloves. Wear protective clothing.

Eye Protection: Face shields (8-inch minimum) with tightly fitting safely goggles are appropriate eye wear. Wear equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

General Hygienic Measures: Perform routine housekeeping. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes, and clothing. Before rewashing wash contaminated clothing.

Appearance (physical	Black Thixotropic	Explosion limit lower:	Not determined
state, color):	paste	Explosion limit upper:	Not determined
Odor:	Ammonia	Vapor Pressure @ 20°:	Not determined
Odor Threshold:	Not determined	Vapor Density:	Not determined
PH-value:	Not determined	Relative Density:	Heavier than water
Melting/Freezing Point:	Not determined	Solubilities:	Insoluble in water
Boiling Point/Range:	Not determined	Partition Coefficient:	Not determined
Flash Point (closed cup)	Not determined	Auto/self-ignition	Not determined
Evaporation Rate	Not determined	Decomposition Temp	Not determined
Flammability (solid	Not determined	Viscosity	a. Kinematic: Paste
gaseous)			b. Dynamic: Paste
Density at 20°	Not determined		

X. Stability And Reactivity

Reactivity: Nonreactive under normal conditions

Chemical Stability: Stable under normal conditions. Chemically inert, properties are inert; affected by change in PH

Possible Hazardous Reactions: None under normal conditions

Conditions to Avoid: Incompatible materials

Incompatible Materials: Strong Acids, Strong Bases, Oxidizing Agents, and Hydrogen Fluoride.

Hazardous Decomposition Products: Carbon oxides, Nitrogen oxides, Ammonia. When heated to decomposition it emits acrid smoke and irritation fumes.

XI. Toxicity Information

Inhalation: Experimental carcinogenetic is associated with respirable fibers greater than 5 micrometers in length. Depending on the degree of exposure, periodic medical examination is suggested. Fiber length varies with the source of material.

Skin Corrosion/Irritation: 12174-11-7 May cause mechanical irritation of the skin.

Serious Eye Damage/Irritation: 12174-11-7 May cause mechanical irritation of the eyes.

Respiratory or Skin Sensitization: 12147-11-7 Can cause irritation to the respiratory tract.

Carcinogenicity: IARC: Group 2B(possible carcinogenic to humans) Monograph 69 [1997] (long fibers>5 um); Supplement 7 [1987] IARC: Group 3 (not classifiable) Monograph 68 [1997] (short fibers <5 um); Supplement 7 [1987]

Germ cell mutagenicity: No additional information

XII. Ecological Information

Ecotoxicity: Fish (acute 84852-15-3): 96 hr LC50 Pimephales promelas: 0.135MG/L (flowthrough): 96 hr LC50 lepomis macrochirus: 0.1351 MG/L (flow-through), Crustacea (acute 84852-15-3): 48 hr EC50 Daphnia magna: 0.14 MG/L Algae (acute 84852-15-3): 96 hr EC50 Pseudokirchneriella subcapitata: 0.16-0.72 MG/L [static]; 72 hr EC50 Desmodesmus subspicatus: 1.3 MG/L

Persistence and Degradability:

1217-11-7: Long term degradation products may arise, aerobic-exposure time 28 d result: 0%, not readily biodegradable (OECD test guidelines 301F)

Bioaccumulative Potential: BCF (84852-15-3): 271 species: fish Mobility in Soil: Not additional Information

Other Adverse Effects: No Additional Information

XIII. Disposal Considerations

Waste Disposal Recommendations: Contact a licensed professional waste disposal service to dispose of this material. Dispose of empty containers as usual product. Product or container must not be disposed together with household garbage. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Chemical waste generators must also consult local, regional, and national hazardous waste regulations. Ensure complete and accurate classification. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

XIV. Transport Information

DOT SHIPPING INFORMATION

DOT Proper Shipping NameAlkylphenol Liquid, N.O.S (4-Nonylphenol, branched)DOT Hazard Class8 PG IIDOT I.D. NumberUN 3145

XV. Regulatory Information

United States (USA)

SARA Section 311/312 (Specific toxic chemical listings):	None of the ingredients are listed	
SARA Section 313 (Specific toxic chemical listings):	84852-15-3.1.0% de minimis concentration(listed under Chemical Category Nonylphenol)None of the ingredients are listed.All ingredients are listed.None of the ingredients are listed.	
RCRA (Hazardous waste code):		
TSCA (Toxic substance control act)		
CERCLA(Comprehensive Environmental Response, Compensation, an Liability Act):		
Proposition 65 (California):		
Chemicals known to cause cancer:	None of the ingredients are listed.	
Chemicals known to cause reproduction toxicity of females:	None of the ingredients are listed.	
Chemicals known to cause reproduction toxicity of males:	None of the ingredients are listed.	
Chemicals known to cause developmental toxicity:	None of the ingredients are listed.	
Canada Canadian Domestic Substance List (DSL)	None of the ingredients are listed.	
Canadian NPRI ingredient disclosure list(limit 0.1%)	None of the ingredients are listed.	
Canadian NPRI ingredient disclosure list(limit 1%)	148-8-60-7 Quartz	

XVI. Other Information

THE INFORMATION HEREIN HAS BEEN COMPLIED FROM SOURCES BELIEVED TO BE RELIABLE AND IS ACCURATE TO THE BEST OF OUR KNOWLEDGE. HOWEVER, LymTal INTERNATIONAL INC. CANNOT GIVE ANY GUARANTEES REGARDING INFORMATION FROM OTHER SOURCES, AND EXPRESSLY DOES NOT MAKE ANY WARRANTIES, NOR ASSUMES ANY LIABILITY, FOR ITS USE.

Date of Preparation/ Last Revision: 04/12/2016