

SAFETY DATA SHEET



Date Prepared : 05/10/2016
 MSDS No : 11710121_15213 - RESIN
 Date-Revised : 11/06/2017
 Revision No : 9

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT DESCRIPTION: Z3 EPOXY GEL SYRINGE BREAK OFF TIP (48) - RESIN

MANUFACTURER

Pacer Technology
 3281 E. Guasti Rd., Suite 260
 Ontario, CA 91761
Emergency Contact: CHEMTREC
Emergency Phone: 800-424-9300
Alternate Emergency Phone: 703-527-3887
Product Stewardship: 909-987-0550

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

Health:

Skin Irritation, Category 2
 Eye Irritation, Category 2B
 Skin sensitisation, Category 1B
 Reproductive Toxicity, Category 2

GHS LABEL ELEMENTS

Note: If this product is a consumer product it is labeled in accordance with the Consumer Product Safety Commission regulations and not OSHA regulations. The requirements for the labeling of consumer products take precedence over OSHA labeling so the actual product label will not contain the OSHA label elements shown below on this SDS.



Exclamation
mark



Health
hazard

SIGNAL WORD: WARNING

HAZARD STATEMENTS

H315: Causes skin irritation.
 H317: May cause an allergic skin reaction.
 H319: Causes serious eye irritation.
 H361: Suspected of damaging fertility or the unborn child (state specific effect if known)(state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).

PRECAUTIONARY STATEMENT(S)

Prevention:

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
 P264: Wash skin and hands thoroughly after handling.
 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.

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P362: Take off contaminated clothing.
P363: Wash contaminated clothing before reuse.
P391: Collect spillage.

Response:

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P313: Get medical advice/attention.
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

Storage:

P403+P235: Store in a well-ventilated place. Keep cool.

Disposal:

P501: Dispose of in a manner consistent with federal, state, and local regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Epoxy resin (Bisphenol A)	90 - 100	25068-38-6

4. FIRST AID MEASURES

EYES: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined and tested by medical personnel.

SKIN: Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms reoccur. Wash clothing before reuse.

INGESTION: If swallowed, do not induce vomiting. Keep individual calm. Get medical attention and show container label.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Causes eye irritation.

SKIN: Irritating to skin. May cause allergic skin reaction with prolonged contact.

SKIN ABSORPTION: This material is a water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.

INGESTION: May be irritating. Seek medical advice.

INHALATION: Prolonged or excessive inhalation may cause respiratory tract irritation.

ACUTE EFFECTS: Slightly irritating to eyes and respiratory tracts.

CHRONIC EFFECTS: Frequent or prolonged contact may irritate the skin and cause a skin rash (dermatitis).

5. FIRE FIGHTING MEASURES

FLAMMABLE CLASS: Not Flammable

EXTINGUISHING MEDIA: Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.

HAZARDOUS COMBUSTION PRODUCTS: Combustion products may include and are not limited to: Carbon monoxide, carbon

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dioxide and phenolics.

FIRE FIGHTING PROCEDURES: Use water spray to keep fire-exposed containers cool and to knock down vapors which may result from product decomposition.

FIRE FIGHTING EQUIPMENT: As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Dioxide, Carbon Monoxide and other toxic or irritating compounds may form when heated to decomposition.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES: Contain spilled material if possible. Absorb with materials such as: Sand. Polypropylene fiber products. Polyethylene fiber products. Remove residual with soap and hot water. Collect in suitable and properly labeled containers. Residual can be removed with solvent. Solvents are not recommended for clean-up unless the recommended exposure guidelines and safe handling practices for the specific solvent are followed. Consult appropriate solvent Safety Data Sheet for handling information.

COMMENTS: This material is a water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Use with adequate ventilation. Avoid contact with eyes, skin and clothing.

HANDLING: Avoid breathing (dust, vapor, mist, gas). Avoid contact with skin, eyes and clothing. Keep container closed when not in use.

STORAGE: Store in a cool place in original container and protect from sunlight. Keep away from sources of ignition.

STORAGE TEMPERATURE: Ambient room temperature (70F/21C).

LOADING TEMPERATURE: Not Determined

LOADING/UNLOADING VISCOSITY: Not Determined

STORAGE PRESSURE: Not Determined

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:

Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

SKIN: Wear rubber gloves to avoid prolonged skin contact.

RESPIRATORY: Use only in a well ventilated area.

PROTECTIVE CLOTHING: Wear rubber gloves & apron.

WORK HYGIENIC PRACTICES: Avoid contact with skin and eyes. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

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PHYSICAL STATE: Viscous liquid.
ODOR: Mild odor.
ODOR THRESHOLD: No data available
APPEARANCE: Paste.
COLOR: Green.
pH: No data available
PERCENT VOLATILE: No data available
FLASHPOINT AND METHOD: 264°C (507°F) to 268°C (514°F) CC - Closed Cup
AUTOIGNITION TEMPERATURE: No data available
VAPOR PRESSURE: No data available
VAPOR DENSITY: No data available
BOILING POINT: No data available
FREEZING POINT: No data available
MELTING POINT: No data available
POUR POINT: No data available
THERMAL DECOMPOSITION: No data available
SOLUBILITY IN WATER: 5.4 to 8.4 mg/L at 20°C (68°F)
EVAPORATION RATE: No data available
DENSITY: 1.16 g/cm³ at 25C (77F)
SPECIFIC GRAVITY: 1.16
VISCOSITY #1: 10000 to 20000 mPa. s. at 25°C (77°F)
MOLECULAR WEIGHT: No data available
(VOC): 0 g/L

10. STABILITY AND REACTIVITY

HAZARDOUS POLYMERIZATION: Will not occur.
STABILITY: Stable
CONDITIONS TO AVOID: Avoid temperatures above (300) F (148) C.
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, aldehydes, acids and other organic substances may be formed during combustion (>500F) temperature degradation.
INCOMPATIBLE MATERIALS: Strong acids, oxidizing agents, mineral and organic bases, and especially aliphatic amines.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Chemical Name	ORAL LD ₅₀ (rat)	DERMAL LD ₅₀ (rabbit)
Epoxy resin (Bisphenol A)	> 2000 mg/kg (rat)	> 2000 mg/kg (rat)

DERMAL LD₅₀: 23000 mg/kg (rabbit)

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ORAL LD₅₀: > 15000 mL/kg (rat)

SERIOUS EYE DAMAGE/IRRITATION: Prolonged or repeated skin contact may cause irritation.

RESPIRATORY OR SKIN SENSITISATION: May cause sensitization.

GERM CELL MUTAGENICITY:

In vitro genetic toxicity studies were negative in some cases and positive in other cases. Animal genetic toxicity studies were negative.

CARCINOGENICITY

IARC: Not listed.

NTP: Not listed.

OSHA: Not listed.

REPRODUCTIVE TOXICITY:

In animal studies, did not interfere with reproduction.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Do not flush to sewer.

ECOTOXICOLOGICAL INFORMATION: Rainbow trout LC50, semi-static test, 96 h: 2 mg/L; Water flea EC50, static test, 48 h, immobilization: 1.8 mg/L; Bacteria IC50, 18 h: >42.6 mg/L.

BIOACCUMULATION/ACCUMULATION: Bioconcentration potential is moderate (BCF 100 to 3000 or Log Pow 3 to 5).

AQUATIC TOXICITY (ACUTE)

Notes: Material is toxic to aquatic organisms (LC50 between 1 and 10 mg/L in the most sensitive species).

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose of in accordance with local, state, and federal regulations.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: NOT REGULATED PER 49 CFR 173.9

AIR (ICAO/IATA)

SHIPPING NAME: UN3316, CHEMICAL KIT, 9, III

VESSEL (IMO/IMDG)

SHIPPING NAME: UN3316, CHEMICAL KIT, 9, III

COMMENTS: The transport information provided in this section only applies to the material formulation/itself, and is not specific to any package/configuration. This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. It is the responsibility of the transporting organizations to follow all applicable laws, regulations, and rules relating to the transportation of the material.

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

FIRE: No **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** No

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TITLE III NOTES: To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS
Epoxy resin (Bisphenol A)	25068-38-6

TSCA STATUS: All ingredients in this mixture are in compliance with TSCA.

CALIFORNIA PROPOSITION 65:  **WARNING:** This product can expose you to chemicals including Bisphenol A, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Chemical Name	Wt.%	Listed
Epoxy resin (Bisphenol A)	90 - 100	Female Reproductive

16. OTHER INFORMATION

APPROVED BY: Pacer Technology Regulatory Department

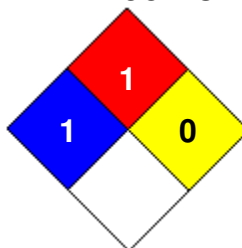
PREPARED BY: Pacer Technology Regulatory Department **Date-Revised:** 11/06/2017

REVISION SUMMARY: This MSDS replaces the 09/14/2017 MSDS.

HMIS RATING

HEALTH	<input type="checkbox"/>	1
FLAMMABILITY	<input type="checkbox"/>	1
PHYSICAL HAZARD	<input type="checkbox"/>	0
PERSONAL PROTECTION	<input type="checkbox"/>	

NFPA CODES



MANUFACTURER DISCLAIMER:

To the best of our knowledge, the information contained herein is accurate. However, Pacer Technology does not assume any liability for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.

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Date Prepared : 11/25/2013
MSDS No : 11710121_15213 - HARDENER
Date-Revised : 08/09/2017
Revision No : 7

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT DESCRIPTION: Z3 EPOXY GEL SYRINGE BREAK OFF TIP (48) - HARDENER

MANUFACTURER

Pacer Technology
3281 E. Guasti Rd., Suite 260
Ontario, CA 91761
Emergency Contact: CHEMTREC
Emergency Phone: 800-424-9300
Alternate Emergency Phone: 703-527-3887
Product Stewardship: 909-987-0550

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

Health:

Skin corrosion/irritation, Category 1C
Serious eye damage/eye irritation, Category 1
Specific Target Organ Toxicity (Repeated Exposure): Oral [brain], Category 2

GHS LABEL ELEMENTS

Note: If this product is a consumer product it is labeled in accordance with the Consumer Product Safety Commission regulations and not OSHA regulations. The requirements for the labeling of consumer products take precedence over OSHA labeling so the actual product label will not contain the OSHA label elements shown below on this SDS.



Corrosion



Health
hazard

SIGNAL WORD: DANGER

HAZARD STATEMENTS

H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H373: May cause damage to organs through prolonged or repeated exposure if swallowed. (brain)

PRECAUTIONARY STATEMENT(S)

Prevention:

P264: Wash skin and hands thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P362: Take off contaminated clothing.

Response:

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P301+312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
 P302+352: IF ON SKIN: Wash with plenty of soap and water.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P332+P313: If skin irritation occurs: Get medical advice/attention.
 P337+P313: If eye irritation persists: Get medical advice/attention.

Storage:

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

Disposal:

P501: Dispose of in a manner consistent with federal, state, and local regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Mercaptan/amine polymer system	85 - 100	
2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL	3 - 7	90-72-2
Bis(dimethylamino)methyl phenol	1 - 5	71074-89-0

4. FIRST AID MEASURES

EYES: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined and tested by medical personnel.

SKIN: Wash with soap and water. Get medical attention if irritation develops or persists.

INGESTION: Do Not induce vomiting. Contact physician at once.

INHALATION: Remove to fresh air. Get medical attention if breathing is difficult.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Causes serious eye damage.

SKIN: Causes severe burns.

SKIN ABSORPTION: No data available

INGESTION: Ingestion of this material can cause mouth, throat, esophageal, and gastrointestinal tract irritation.

INHALATION: Prolonged or excessive inhalation may cause respiratory tract irritation.

ACUTE EFFECTS: Slightly irritating to eyes and respiratory tracts.

CHRONIC EFFECTS: Avoid contact with eyes; may cause redness, irritation and conjunctivitis.

5. FIRE FIGHTING MEASURES

FLAMMABLE CLASS: Not Flammable

EXTINGUISHING MEDIA: Water spray, foam, carbon dioxide, dry chemicals.

HAZARDOUS COMBUSTION PRODUCTS: Can burn in fire, releasing toxic vapors.

EXPLOSION HAZARDS: None known.

FIRE FIGHTING PROCEDURES: Firefighters should wear self-contained breathing apparatus and protective clothing.

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FIRE FIGHTING EQUIPMENT: As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

FIRE EXPLOSION: None known.

SENSITIVE TO STATIC DISCHARGE: No data available

SENSITIVITY TO IMPACT: No data available

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide or carbon dioxide.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Scrape as much material as you can from the surface using a stiff metal or plastic scraper. Clean the residue with acetone or alcohol and place in a disposable container.

LARGE SPILL: Prevent contamination of soil, drains and surface waters. Dike and contain material. Soak up residue with absorbent (clay, sand) materials and dispose of properly.

ENVIRONMENTAL PRECAUTIONS

WATER SPILL:

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

GENERAL PROCEDURES: Polymerize with water. Increase ventilation to area. Solid material may be scraped from surface.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Use with adequate ventilation. Avoid contact with eyes, skin and clothing.

HANDLING: Avoid breathing (dust, vapor, mist, gas). Avoid contact with skin, eyes, and clothing. Keep Container closed when not in use.

STORAGE: Store in a cool place in original container and protect from sunlight. Keep away from sources of ignition.

STORAGE TEMPERATURE: Ambient room temperature (70F/21C).

LOADING TEMPERATURE: No data available

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

SKIN: Wear suitable protective clothing and gloves.

RESPIRATORY: Use only in a well-ventilated area. In case of insufficient ventilation, wear suitable respiratory equipment. Recommended: Full-face NIOSH-approved respirator with organic vapor cartridge.

PROTECTIVE CLOTHING: Wear protective clothing. Launder contaminated clothing before reuse.

WORK HYGIENIC PRACTICES: Avoid contact with skin and eyes. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid. [Paste].

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ODOR: Epoxy odor.
ODOR THRESHOLD: No data available
APPEARANCE: Light yellow viscous liquid.
pH: No data available
PERCENT VOLATILE: No data available
FLASHPOINT AND METHOD: > 93.33 °C (200 °F) Closed cup [Estimated]
FLAMMABLE LIMITS: No data available
AUTOIGNITION TEMPERATURE: No data available
VAPOR PRESSURE: No data available
VAPOR DENSITY: No data available
BOILING POINT: No data available
FREEZING POINT: No data available
MELTING POINT: No data available
POUR POINT: No data available
THERMAL DECOMPOSITION: No data available
SOLUBILITY IN WATER: Slight
EVAPORATION RATE: <0.01 (butyl acetate =1)
DENSITY: No data available
SPECIFIC GRAVITY: 1.16
MOLECULAR WEIGHT: No data available
(VOC): 0 g/L

10. STABILITY AND REACTIVITY

STABILITY: Stable
POSSIBILITY OF HAZARDOUS REACTIONS: Under normal conditions of storage and use, hazardous reactions will not occur.
HAZARDOUS DECOMPOSITION PRODUCTS: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
INCOMPATIBLE MATERIALS: Strong oxidizing agents, acids and bases.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Chemical Name	ORAL LD ₅₀ (rat)	DERMAL LD ₅₀ (rabbit)
2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL	2169 mg/kg (rat)	> 971 mg/kg (rat)

DERMAL LD₅₀: > 971 mg/kg (rat)

ORAL LD₅₀: 2169 mg/kg (rat)

NOTES: Product is moderately irritating to eyes and skin. Contact with product at elevated temperatures can result in thermal burns. Product may cause skin sensitization in susceptible individuals; overexposure effects may be skin/eye irritation and allergic skin reactions.

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RESPIRATORY OR SKIN SENSITISATION: Irritating to skin. May cause allergic skin reaction with prolonged contact.

GERM CELL MUTAGENICITY: No known significant effects or critical hazards.

CARCINOGENICITY

IARC: Not listed.

NTP: Not listed.

OSHA: Not listed.

NOTES: No known significant effects or critical hazards.

REPRODUCTIVE TOXICITY: No known significant effects or critical hazards.

STOT-SINGLE EXPOSURE: No data available

STOT-REPEATED EXPOSURE: May cause damage to organs through prolonged or repeated exposure if swallowed. (brain)

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Prevent product from entering drains or sewers in case of spill.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose of in accordance with local, state, and federal regulations.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: UN3316, CHEMICAL KIT, 9, III

AIR (ICAO/IATA)

SHIPPING NAME: UN3316, CHEMICAL KIT, 9, III

VESSEL (IMO/IMDG)

SHIPPING NAME: UN3316, CHEMICAL KIT, 9, III

COMMENTS: The transport information provided in this section only applies to the material formulation/itself, and is not specific to any package/configuration. This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. It is the responsibility of the transporting organizations to follow all applicable laws, regulations, and rules relating to the transportation of the material.

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

FIRE: No **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** No

TSCA (TOXIC SUBSTANCE CONTROL ACT)

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Chemical Name	CAS
Mercaptan/amine polymer system	
2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL	90-72-2
Bis(dimethylamino)methyl phenol	71074-89-0

16. OTHER INFORMATION

APPROVED BY: Pacer Technology Regulatory Department

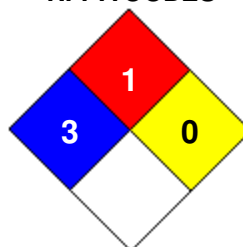
PREPARED BY: Pacer Technology Regulatory Department **Date-Revised:** 08/09/2017

REVISION SUMMARY: This MSDS replaces the 01/31/2017 MSDS. Revised: **Section 1:** MSDS No. **Section 14:** AIR (ICAO/IATA) - SHIPPING NAME COMMENTS, DOT (DEPARTMENT OF TRANSPORTATION) - PROPER SHIPPING NAME VESSEL (IMO/IMDG) - SHIPPING NAME.

HMIS RATING

HEALTH	<input type="checkbox"/>	3
FLAMMABILITY	<input type="checkbox"/>	1
PHYSICAL HAZARD	<input type="checkbox"/>	0
PERSONAL PROTECTION	<input type="checkbox"/>	

NFPA CODES



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