

SAFETY DATA SHEET



Date Issued : 08/27/2012
MSDS No : 11710293_GR-12
Date-Revised : 05/17/2018
Revision No : 3

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT DESCRIPTION: Z3 GLASS REPAIR 2ML (12)

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, Category 1A
 Skin Sensitization, Category 1
 Mutagenicity, Category 1B
 Carcinogenicity, Category 1B
 Reproductive Toxicity, Category 2
 Target Organ Toxicity (Single exposure), Category 3

Environmental:

Acute Hazards to the Aquatic Environment, Category 3
 Chronic Hazards to the Aquatic Environment, Category 2

Physical:

Flammable Liquids, Category 4

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



Exclamation
mark

SIGNAL WORD: DANGER

HAZARD STATEMENTS

H227: Combustible liquid.
 H314: Causes severe skin burns and eye damage.
 H317: May cause an allergic skin reaction.
 H335: May cause respiratory irritation.
 H340: May cause genetic defects.
 H350: May cause cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).

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H361: Suspected of damaging fertility or the unborn child.
 H402: Harmful to aquatic life.
 H411: Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENT(S)

Prevention:

P202: Do not handle until all safety precautions have been read and understood.
 P262: Do not get in eyes, on skin, or on clothing.
 P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
 P271: Use only outdoors or in a well-ventilated area.
 P273: Avoid release to the environment.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P302+P352: IF ON SKIN: Wash with plenty of soap and water.
 P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 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.
 P314: Get medical advice/attention if you feel unwell.
 P337+P313: If eye irritation persists: Get medical advice/attention.
 P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
 P363: Wash contaminated clothing before reuse.
 P370+P378: In case of fire: Use dry chemical, CO₂, or foam to extinguish.

Storage:

P403+P233: Store in a well-ventilated place. Keep container tightly closed.
 P411+P235: Store at temperatures not exceeding 38°C/100°F. 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
Urethane acrylate oligomer	60 - 85	
Acrylate ester	15 - 20	5888-33-5
Acrylic acid	1 - 10	79-10-7
Ethoxylated Trimethylolpropane Triacrylate	~ 3.12	28961-43-5
diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	≤ 1.24	75980-60-8
2-hydroxy-2-methylpropiophenone	< 5	7473-98-5
Aliphatic petroleum distillates	< 5	64742-48-9

4. FIRST AID MEASURES

EYES: Rinse immediately with plenty of water for 15 minutes. Get medical advice/attention.

SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse.

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INGESTION: Do NOT induce vomiting. Get immediate medical attention.

INHALATION: Remove the victim to fresh air. Respiratory problems: consult a doctor/medical service.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Moderate eye irritant.

SKIN: Slight irritation.

INGESTION: Diarrhea. Nausea. Vomiting. Harmful if swallowed.

INHALATION: Harmful if inhaled.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Carbon dioxide (CO₂), dry chemical powder, foam. Do NOT use a heavy water stream.

HAZARDOUS COMBUSTION PRODUCTS: Carbon oxides (CO and CO₂). Other toxic vapors.

EXPLOSION HAZARDS: Combustible Liquid. Can form explosive mixtures at temperatures at or above the flash point.

FIRE FIGHTING EQUIPMENT: Firefighters should wear positive pressure self contained breathing apparatus (SCBA) and full turnout gear.

FIRE EXPLOSION: Containers may rupture violently under fire temperatures. Cool containers with water if exposed to fire conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon and nitrogen.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Dam up the liquid spill. Take up liquid spill into inert absorbent material. Absorbed substance: shovel into drums.

LARGE SPILL: Dam up the liquid spill. Take up liquid spill into inert absorbent material. Absorbed substance: shovel into drums.

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

LAND 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.

AIR SPILL: No data available on this product.

GENERAL PROCEDURES: Ensure adequate air ventilation. Use protective clothing. Try to stop release.

SPECIAL PROTECTIVE EQUIPMENT: Ensure adequate ventilation, especially in confined areas. Protect substance against light. Use personal protective equipment as required.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Do not eat, drink, or smoke when using this product. Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and when leaving work.

HANDLING: Avoid breathing mist, vapors. Comply with the legal requirements. Do not discharge the waste into the drain. Do not eat, drink, or smoke when using this product. Do not handle until all safety precautions have been read and understood. Keep away from sources of ignition - No smoking. Observe normal hygiene standards. Use only in well ventilated area. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and when leaving work.

STORAGE: Keep only in the original container in a cool, well ventilated place away from: Direct sunlight and heat sources.

STORAGE TEMPERATURE: ≤ 37C

COMMENTS: Keep away from heat sources. Keep out of direct sunlight. Keep only in original container and in a well-ventilated

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place. Store in a cool area. Store in a dry area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Chemical goggles or safety glasses.

SKIN: Wear suitable protective clothing.

RESPIRATORY: In case of insufficient ventilation, wear suitable respiratory equipment.

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

WORK HYGIENIC PRACTICES: Wash hands with soap and water after use. Launder contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

ODOR: Mild

ODOR THRESHOLD: No data available

COLOR: Colorless to light amber

PHYSICAL STATE COMMENTS: Liquid

pH: No data available

PERCENT VOLATILE: No data available

FLASHPOINT AND METHOD: 79°C (174°F)

VAPOR PRESSURE: No data available

VAPOR DENSITY: > 1

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: Insoluble

PARTITION COEFFICIENT: N-OCTANOL/WATER: No data available

EVAPORATION RATE: No data available

SPECIFIC GRAVITY: 1.08

VISCOSITY: No data available

(VOC): 4 %

10. STABILITY AND REACTIVITY

REACTIVITY: May polymerize.

STABILITY: Unstable.

CONDITIONS TO AVOID: Heat. Direct sunlight. UV radiation.

POSSIBILITY OF HAZARDOUS REACTIONS: Hazardous reactions are possible when exposed to incompatible materials such as nitrates, chlorine, ammonia, strong oxidizers, alkalis, and acids

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide. Carbon monoxide. Oxides of nitrogen.

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INCOMPATIBLE MATERIALS: All heat sources. Oxidizing agent. Thiosulfates. Mineral acids.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Chemical Name	ORAL LD ₅₀ (rat)	DERMAL LD ₅₀ (rabbit)	INHALATION LC ₅₀ (rat)
Acrylate ester	4890 mg/kg (rat)	No data available	> 5000 mg/kg
Acrylic acid	830 mg/kg (mouse)	640 mg/kg (rabbit)	> 5100 mg/L (4 hr Vapor/Aerosol)
2-hydroxy-2-methylpropiophenone	1694 mg/kg	6929 mg/kg (rat)	No data available

NOTES: Not classified.

CARCINOGENICITY

Chemical Name	IARC Status
Acrylic acid	3

12. ECOLOGICAL INFORMATION

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

ECOTOXICOLOGICAL INFORMATION: No data available on this product.

BIOACCUMULATION/ACCUMULATION: No data available on this product.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose of contents/container to an approved waste disposal facility in accordance with applicable local, state, and national laws.

GENERAL COMMENTS: Avoid release to the environment.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ACRYLATE ESTER), 9, III (LTD QTY, IP VOL LESS THAN OR EQUAL TO 5.0 L)

AIR (ICAO/IATA)

SHIPPING NAME: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ACRYLATE ESTER), 9, III (LTD QTY, IP VOL LESS THAN OR EQUAL TO 5.0 L)*

VESSEL (IMO/IMDG)

SHIPPING NAME: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ACRYLATE ESTER), 9, III (LTD QTY, IP VOL LESS THAN OR EQUAL TO 5.0 L)*

COMMENTS: * This product may be shipped as EXCEPTED QUANTITIES OF CLASS 9, UN3082 (IP VOL LESS THAN OR EQUAL TO 0.03 L, OP VOL LESS THAN OR EQUAL TO 1.0 L)

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,

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and rules relating to the transportation of the material.

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: Delayed (chronic) health hazard, Immediate (acute) health hazard, Reactive hazard.

313 REPORTABLE INGREDIENTS: Section 313: Acrylic Acid (79-10-7).

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

Chemical Name	Wt.%	CERCLA RQ
Acrylic acid	1 - 10	5,000

TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS
Urethane acrylate oligomer	
Acrylate ester	5888-33-5
Acrylic acid	79-10-7
2-hydroxy-2-methylpropiophenone	7473-98-5
Aliphatic petroleum distillates	64742-48-9

TSCA STATUS: All components of this product are listed on the TSCA Inventory of Chemical Substances or are exempt from the listing.

16. OTHER INFORMATION

APPROVED BY: Pacer Technology Regulatory Department

PREPARED BY: Pacer Technology Regulatory Department **Date-Revised:** 05/17/2018

REVISION SUMMARY: This MSDS replaces the 12/22/2014 MSDS. Revised: **Section 1:** APPROVED BY, Date-Revised, MSDS No, PREPARED BY. **Section 2:** . **Section 4:** ACUTE TOXICITY, CHRONIC EFFECTS, EYES, INGESTION, INHALATION, SIGNS AND SYMPTOMS OF OVEREXPOSURE (INGESTION, INHALATION, SKIN, SKIN ABSORPTION), SKIN. **Section 5:** EXTINGUISHING MEDIA, FIRE FIGHTING EQUIPMENT, FIRE FIGHTING PROCEDURES, FLAMMABLE CLASS, HAZARDOUS COMBUSTION PRODUCTS, SENSITIVE TO STATIC DISCHARGE, SENSITIVITY TO IMPACT. **Section 6:** GENERAL PROCEDURES, LARGE SPILL, SMALL SPILL, SPECIAL PROTECTIVE EQUIPMENT, WATER SPILL. **Section 7:** COMMENTS, ELECTROSTATIC ACCUMULATION HAZARD, GENERAL PROCEDURES, HANDLING, LOADING TEMPERATURE, LOADING/UNLOADING VISCOSITY, STORAGE, STORAGE PRESSURE, STORAGE TEMPERATURE. **Section 8:** ENGINEERING CONTROLS, PERSONAL PROTECTIVE EQUIPMENT (EYES AND FACE, RESPIRATORY). **Section 9:** APPEARANCE, COLOR, MOLECULAR WEIGHT, ODOR, PHYSICAL STATE, VAPOR DENSITY, PHYSICAL STATE COMMENTS. **Section 10:** CONDITIONS TO AVOID, HAZARDOUS DECOMPOSITION PRODUCTS, HAZARDOUS POLYMERIZATION, INCOMPATIBLE MATERIALS, STABILITY, STABLE. **Section 11:** ACUTE (ORAL LD₅₀ (rat), INHALATION LC₅₀ (rat) ACUTE, CARCINOGENICITY, GERM CELL MUTAGENICITY, , , SKIN CORROSION/IRRITATION. **Section 13:** DISPOSAL METHOD, GENERAL COMMENTS. **Section 14:** AIR (ICAO/IATA) (PRIMARY HAZARD CLASS/DIVISION, PACKING GROUP, UN/NA NUMBER), COMMENTS, DOT (DEPARTMENT OF TRANSPORTATION) - PROPER SHIPPING NAME ROAD AND RAIL (ADR/RID), ROAD AND RAIL (ADR/RID) (UN NUMBER, PACKING GROUP), VESSEL (IMO/IMDG) (PRIMARY HAZARD CLASS/DIVISION, PACKING GROUP, UN/NA NUMBER). **Section 15:** 311/312 HAZARD CATEGORIES, TSCA STATUS, WHMIS (WORKPLACE HAZARDOUS MATERIALS

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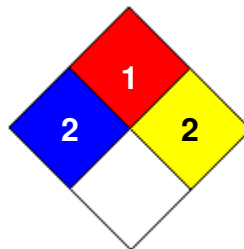
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INFORMATION SYSTEM), CALIFORNIA PROPOSITION 65. **Section 16:** HMIS RATING (HMIS RATINGS NOTES), NFPA CODES - SPECIAL.

HMIS RATING

HEALTH	<input type="text"/>	2
FLAMMABILITY	<input type="text"/>	1
PHYSICAL HAZARD	<input type="text"/>	2
PERSONAL PROTECTION	<input type="text"/>	

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.