

SAFETY DATA SHEET

PACER
TECHNOLOGY
INDUSTRIAL • PRIVATE LABEL



Date Prepared : 04/15/2014

MSDS No : PT25-GHS

Date-Revised : 03/09/2017

Revision No : 4

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT DESCRIPTION: ZAP-O 20GM

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

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC (800) 424-9300

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

Health:

Eye Irritation, Category 2A
Skin Irritation, Category 2
Target Organ Toxicity (Single exposure), Category 3
Skin Sensitization, Category 1

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.



Exclamation
mark

SIGNAL WORD: WARNING

HAZARD STATEMENTS

H227: Combustible liquid.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
H335: May cause respiratory irritation.

PRECAUTIONARY STATEMENT(S)

Prevention:

P210: Keep away from heat/sparks/open flames/hot surfaces. - No Smoking.
P261: Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

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P264: Wash skin and hands thoroughly after handling.
 P271: Use only outdoors or in a well-ventilated area.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P302+352: IF ON SKIN: Wash with plenty of soap and water.
 P304+P340: IF INHALED: Remove to fresh air and keep at rest in a position 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.
 P312: Call a POISON CENTER or doctor/physician if you feel unwell.
 P313: Get medical advice/attention.
 P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
 P337: If eye irritation persists: seek medical attention.
 P362: Take off contaminated clothing.
 P370: In case of fire: Use dry chemical, foam or carbon dioxide to extinguish.

Storage:

P403+P233: Store in a well-ventilated place. Keep container tightly closed.
 P403+P235: Store in a well-ventilated place. Keep cool.
 P405: Store locked up.

Disposal:

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

HAZARDS NOT OTHERWISE CLASSIFIED: Skin contact through clothing may cause burns.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
2-Methoxyethyl 2-cyanoacrylate	70 - 100	27816-23-5
Polymethyl methacrylate	10 - 30	9011-14-7

4. FIRST AID MEASURES

EYES: Immediately flush eyes with large quantities of water for several minutes, while holding eyelids apart. Remove contact lenses if easy to do so. Continue rinsing. Get medical attention if irritation or bonding occurs.

SKIN: Flush skin with water for several minutes. If bonded, immerse bonded areas in warm, soapy water for several minutes. Peel or roll skin or bonded material apart. Get medical attention if irritation occurs. Remove and launder clothing before re-use.

INGESTION: Flush lips with warm water to release lips if bonded. Ingestion is unlikely, though the product may stick in the mouth. Over a period of 1-2 days, the product will be loosened by saliva. Avoid swallowing the product. Get medical attention if symptoms occur.

INHALATION: Remove victim to fresh air. Get medical attention if symptoms of exposure persist.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Bonds eyelids immediately.

SKIN: Bonds skin immediately. Large quantities may react with skin and cause skin burns. May be harmful if swallowed.

INGESTION: May be harmful if swallowed.

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

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5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use dry chemical extinguisher or flush with large amounts of water.

HAZARDOUS COMBUSTION PRODUCTS: Oxides of carbon and nitrogen, hydrogen cyanide, and other toxic or irritating compounds.

FIRE FIGHTING EQUIPMENT: Wear an approved, positive pressure, self-contained breathing apparatus and full protective clothing. Cool fire exposed containers with water.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Collect material with absorbent rags (not paper towels) or wash the material down with water to solidify and scrape solid off surface. Rinse spill area with water.

GENERAL PROCEDURES: Evacuate spill area and keep unprotected personnel away. Remove all ignition sources such as open flames, etc. Avoid contact with eyes, skin or clothing. Wear appropriate protective clothing to prevent eye and skin contact including impervious gloves, safety goggles, and respirator if needed. Avoid breathing mists or vapors. Ventilate area.

RELEASE NOTES: Avoid releases to the environment. Report spills and releases as required to appropriate authorities.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Avoid breathing mists or vapors. Use with adequate ventilation. Avoid contact with the eyes, skin, and clothing. Wear appropriate protective clothing as describe in Section 8. Wash thoroughly after handling. Keep away from flames and sources of ignition. No smoking in storage or use areas. Keep containers closed when not in use.

STORAGE: Store in a container in a cool, dry, well-ventilated location away from heat, sunlight and incompatible materials. Keep in original container. Prevent moisture contact. Keep container tightly closed when not in use. Ideal storage temperature 5-10C (41-40F).

STORAGE TEMPERATURE: Ideal storage: 41-50F (5-10C)

SHELF LIFE: One year from the date of shipment from Pacer Technology, unless otherwise noted.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)			
Chemical Name	EXPOSURE LIMITS		
	Type	ppm	mg/m ³
2-Methoxyethyl 2-cyanoacrylate	Supplier OEL	TWA	0.2

ENGINEERING CONTROLS: Use with adequate general or local exhaust ventilation to minimize exposure levels.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Chemical safety goggles are recommended where splashing is possible.

SKIN: Impervious gloves such as nitrile gloves are suggested to prevent skin contact. Do not use PVC, Nylon, or cotton materials. Contact your glove supplier for selection assistance.

RESPIRATORY: If needed, an approved respirator with organic vapor cartridges may be used. For higher exposures, a supplied air respirator may be required. Respirator selection and use should be based on contaminant type, form, and concentration. Follow applicable regulations and good Industrial Hygiene practice.

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PROTECTIVE CLOTHING: Impervious clothing is required to prevent skin contact and contamination of personal clothing.
OTHER USE PRECAUTIONS: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid
ODOR: Characteristic odor
ODOR THRESHOLD: No data available
APPEARANCE: Transparent, colorless liquid
pH: No data available
PERCENT VOLATILE: No data available
FLASHPOINT AND METHOD: $\leq 93.3^{\circ}\text{C}$ (200 °F)
FLAMMABLE LIMITS: No data available
AUTOIGNITION TEMPERATURE: No data available
VAPOR PRESSURE: No data available
VAPOR DENSITY: No data available
BOILING POINT: \geq to 150°C (302 °F)
FREEZING POINT: No data available
MELTING POINT: No data available
POUR POINT: No data available
THERMAL DECOMPOSITION: No data available
SOLUBILITY IN WATER: Insoluble in water
EVAPORATION RATE: No data available
DENSITY: No data available
SPECIFIC GRAVITY: 1.07 g/mL at 25°C
VISCOSITY #1: 100 to 200 Centipoise at 22°C (72°F)
MOLECULAR WEIGHT: No data available
(VOC): < 20 g/L Per SCAQMD Method 316B.

10. STABILITY AND REACTIVITY

REACTIVITY: Rapid exothermic polymerization will occur in presence of incompatible materials.
HAZARDOUS POLYMERIZATION: Polymerization will occur on contact with water, amines, alkalis, and alcohols. The polymerization is an exothermic reaction and may cause thermal burns.
STABILITY: Stable under recommended storage conditions.
CONDITIONS TO AVOID: Keep away from heat, flames, and other sources of ignition. keep dry. Avoid high humidity or high temperatures above $80^{\circ}\text{C}/176^{\circ}\text{F}$.
HAZARDOUS DECOMPOSITION PRODUCTS: Combustion will produce oxides of carbon and nitrogen, hydrogen cyanide, and other toxic or irritating compounds.
INCOMPATIBLE MATERIALS: Water, alcohol, amines, and alkaline materials.

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11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Chemical Name	ORAL LD ₅₀ (rat)	DERMAL LD ₅₀ (rabbit)
2-Methoxyethyl 2-cyanoacrylate	> 5000 mg/kg	> 2000 mg/kg

DERMAL LD₅₀: > 2000 mg/kg**Notes:** (Estimated)**ORAL LD₅₀:** > 5000 mg/kg**Notes:** (Estimated)**SKIN CORROSION/IRRITATION:** 2-Methoxyethyl 2-Cyanoacrylate: Not irritating to rabbit skin. This product is not expected to cause skin irritation.**SERIOUS EYE DAMAGE/IRRITATION:** 2-Methoxyethyl 2-Cyanoacrylate: Not irritating according to HET-CAM test. This product is not expected to cause eye irritation.**RESPIRATORY OR SKIN SENSITISATION:** No data available**GERM CELL MUTAGENICITY:** No data available**CARCINOGENICITY****NOTES:** None of the components of this product are listed as carcinogens by OSHA, IARC, NTP, ACGIH, and the EU CLP.**REPRODUCTIVE TOXICITY:** No data available**STOT-SINGLE EXPOSURE:** No data available**STOT-REPEATED EXPOSURE:** No data available**ASPIRATION HAZARD:** Components are not aspiration hazards.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: No data available**AQUATIC TOXICITY (ACUTE):** No data available for mixture. This product is expected to be harmful to the aquatic environment. Releases to the environment should be avoided.

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**AIR (ICAO/IATA)****SHIPPING NAME:** ID8000, CONSUMER COMMODITY, 9 (PKG LESS THAN OR EQUAL TO 30 kg G); or UN3334, AVIATION REGULATED LIQUID, N.O.S (METHOXY-ETHYL CYANOACRYLATE), 9, III (LTD QTY, IP VOL LESS THAN OR EQUAL TO 5.0 L, OP WGT LESS THAN OR EQUAL TO 30 kg G) ***VESSEL (IMO/IMDG)**

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SHIPPING NAME: NOT REGULATED

COMMENTS: * This product may be shipped as EXCEPTED QUANTITIES OF CLASS 9, UN3334 (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, 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: Immediate Health, Delayed Health, Fire, Reactive.

313 REPORTABLE INGREDIENTS: None above reporting de minimus.

302/304 EMERGENCY PLANNING

EMERGENCY PLAN: None above reporting de minimus.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS
2-Methoxyethyl 2-cyanoacrylate	27816-23-5
Polymethyl methacrylate	9011-14-7

TSCA STATUS: All components are listed on or are exempt from listing on the Toxic Substances Control Act.

CLEAN AIR ACT

40 CFR PART 68---RISK MANAGEMENT FOR CHEMICAL ACCIDENT RELEASE PREVENTION: Not applicable.

CALIFORNIA PROPOSITION 65: No California Proposition 65 ingredients are known to be in this product.

16. OTHER INFORMATION

APPROVED BY: Pacer Technology Regulatory Department

PREPARED BY: Pacer Technology Regulatory Department **Date-Revised:** 03/09/2017

REVISION SUMMARY: This MSDS replaces the 08/10/2015 MSDS. Revised: **Section 1:** APPROVED BY, 24 HR. EMERGENCY TELEPHONE NUMBERS, MSDS No, PREPARED BY, TITLE. **Section 2:** HAZARDS NOT OTHERWISE CLASSIFIED. **Section 4:** ACUTE TOXICITY, CHRONIC EFFECTS, INGESTION, INHALATION, SIGNS AND SYMPTOMS OF OVEREXPOSURE (INGESTION, SKIN), SKIN. **Section 5:** EXPLOSION HAZARDS, FIRE EXPLOSION, FIRE FIGHTING EQUIPMENT, FIRE FIGHTING PROCEDURES, GENERAL HAZARD, HAZARDOUS COMBUSTION PRODUCTS, HAZARDOUS DECOMPOSITION PRODUCTS, SENSITIVE TO STATIC DISCHARGE, SENSITIVITY TO IMPACT. **Section 6:** GENERAL PROCEDURES, LARGE SPILL, RELEASE NOTES, SMALL SPILL, WATER SPILL. **Section 7:** GENERAL PROCEDURES, HANDLING, STORAGE. **Section 8:** ENGINEERING CONTROLS, PERSONAL PROTECTIVE EQUIPMENT (EYES AND FACE, RESPIRATORY, PROTECTIVE CLOTHING), WORK HYGIENIC PRACTICES. **Section 9:** BOILING POINT, COLOR, FLAMMABLE LIMITS, FLASHPOINT AND METHOD, ODOR, ODOR THRESHOLD, SOLUBILITY IN WATER, SPECIFIC GRAVITY, (VOC). **Section 10:** COMMENTS, CONDITIONS TO AVOID, HAZARDOUS DECOMPOSITION PRODUCTS, HAZARDOUS POLYMERIZATION, INCOMPATIBLE MATERIALS, STABILITY, STABLE, POSSIBILITY OF

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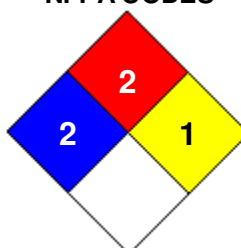
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HAZARDOUS REACTIONS. **Section 11:** ACUTE - INHALATION LC₅₀ (rat) EYE EFFECTS, IARC, NTP, OSHA, SKIN EFFECTS, ASPIRATION HAZARD, CARCINOGENICITY, GERM CELL MUTAGENICITY, REPRODUCTIVE TOXICITY, , STOT-REPEATED EXPOSURE, STOT-SINGLE EXPOSURE, , SKIN CORROSION/IRRITATION. **Section 12:** ENVIRONMENTAL DATA, GENERAL COMMENTS, AQUATIC TOXICITY (ACUTE). **Section 13:** DISPOSAL METHOD, EMPTY CONTAINER, PRODUCT DISPOSAL. **Section 14:** AIR (ICAO/IATA) - SHIPPING NAME COMMENTS, DOT (DEPARTMENT OF TRANSPORTATION) - PROPER SHIPPING NAME ROAD AND RAIL (ADR/RID) - PROPER SHIPPING NAME SHIPPING NAME, VESSEL (IMO/IMDG) - SHIPPING NAME. **Section 15:** WHMIS CLASS.

HMIS RATING

HEALTH	<input type="checkbox"/>	2
FLAMMABILITY	<input type="checkbox"/>	2
PHYSICAL HAZARD	<input type="checkbox"/>	1
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.