

SAFETY DATA SHEET



Date issued : 10/02/2018
 SDS number : 11740117_FG06170
 Date revised : 10/04/2023
 Revision number : 1

1. Identification

Product code: 11740117_FG06170

Product description: Z3 ANL-RC 10ML (10)

Manufacturer / Supplier

Pacer Technology
 3281 E. Guasti Road, Suite 260
 Ontario, CA 91761

Emergency contact: Chemtrec

Emergency Phone: (800) 424-9300

Customer Service: (909) 987-0550

Emergency telephone number (24 hour)

CHEMTREC (800) 424-9300

2. Hazard identification

Classification of the substance or mixture

Health hazards:

Carcinogenicity, Category 2

Eye Damage, Category 1

Skin Corrosion, Category 1B

Specific Target Organ Toxicity (Repeated Exposure), Category 2

Specific Target Organ Toxicity Single Exposure (Respiratory Irritant), Category 3

Physical hazards:

Not Classified

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 statement(s)

H314: Causes severe skin burns and eye damage.

H317: May cause an allergic skin reaction.

H335: May cause respiratory irritation.

H350: Suspected of causing cancer.

H373: May cause damage to kidneys through prolonged or repeated exposure by ingestion.

Precautionary statement(s)

Prevention:

P272: Contaminated work clothing must not be allowed out of the workplace.

P260: Do not breathe dust/fume/gas/mist/vapors/spray.

P270: Do not eat, drink or smoke when using this product.

P202: Do not handle until all safety precautions have been read and understood.

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P201: Obtain special instructions before use.
 P271: Use only outdoors or in a well-ventilated area.
 P264: Wash hands thoroughly after handling.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P301+P330+P310: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor.
 P304+P312+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.
 P303+P361+P353+P364: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse.
 P305+310+P338+351: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
 P308+P313: IF exposed or concerned: 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	% w/w	CAS No.
Polyethylene Glycol Dimethacrylate	25 - 60	25852-47-5
2-Hydroxyethyl methacrylate	> 25.1812	868-77-9
Maleic acid	< 5	110-16-7
2,6-di-tert-butyl-p-cresol	0 - 5	128-37-0
Saccharin	0 - 5	81-07-2
Cumene Hydroperoxide	0.8 - 0.9	80-15-9
Cumene	0.02 - 0.155	98-82-8

4. First-aid measures

Eye: Immediately flush thoroughly with water for 20 minutes, while holding the eye lids open to be sure the material is washed out. Remove contact lenses if present and easy to do. Get immediate medical attention.

Skin: Immediately flush skin with plenty of water for 15 minutes while removing contaminated clothing and shoes. Get immediate medical attention. Launder clothing before re-use. (Discard contaminated shoes).

Ingestion: Do NOT induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious or convulsing person. Keep the victim calm and warm. Get immediate medical attention.

Inhalation: Immediately remove victim to fresh air. If breathing is difficult, oxygen should be administered by qualified personnel. If breathing has stopped, administer artificial respiration. Get immediate medical attention.

Most important symptoms and effects, both acute and delayed

Eye: Causes severe eye irritation.

Skin: Causes sever skin irritation and burns. May cause skin sensitization.

Ingestion: May be fatal if swallowed.

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Inhalation: Inhalation of vapors will cause severe respiratory tract irritation with possible burns.

Chronic effects: This product contains ingredients that are suspected of causing cancer. Prolonged exposure by ingestion may damage the kidneys.

5. Fire-fighting measures

General hazard: This product is not flammable but may burn under fire conditions. Combustion will produce oxides of carbon and nitrogen, and other irritating organic vapors.

Suitable extinguishing media: Use water spray, foam, dry chemical, or carbon dioxide when fighting fires involving this material.

Fire fighting equipment: Wear an approved, positive pressure, self-contained breathing apparatus and full protective clothing. Use water to cool exposed containers and disperse flammable vapors. Contain water used in firefighting from entering sewers or natural waterways.

6. Accidental release measures

Small spill: Cover with an inert absorbent material and collect into an appropriate container for disposal. Avoid release to the environment.

Large spill: Cover with an inert absorbent material and collect into an appropriate container for disposal. Avoid release to the environment.

General procedures: Evacuate spill area and keep unprotected personnel away. Prevent 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. Do not breathe vapors. Ventilate area.

7. Handling and storage

Precautions for safe handling: Do not breathe vapors. Use with adequate ventilation. Prevent contact with the eyes, skin, and clothing. Always wear impervious gloves, chemical safe goggles and protective clothing when handling this material. Wash thoroughly after handling. Do not eat, drink, or smoke in the work area. No smoking in storage or use areas. Keep containers closed when not in use.

Conditions for safe storage: Store container in a cool, well-ventilated location away from strong oxidizers and other incompatible materials. Keep container tightly closed when not in use. Keep in original container.

8. Exposure controls/personal protection

Exposure controls

Control parameters				
Occupational exposure limit values				
Chemical name	Type			
2,6-di-tert-butyl-p-cresol	TWA ACGIH TLV (Inhalable fraction and vapor)			2
Cumene	ACGIH TLV	TWA	50	
	OSHA PEL (skin)	TWA	50	

Appropriate engineering controls: Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits.

Individual protection measures, such as personal protective equipment

Eye / face protection: Chemical safety goggles and face shield recommended.

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Skin protection - hand protection: Impervious gloves are required for all operations where skin contact can occur. Contact your glove supplier for selection assistance.

Respiratory protection: In operations where the occupational exposure limits are exceeded, an approved respirator with dust/mist cartridges or supplied air respirator should be used. Respirator selection and use should be based on contaminant type, form, and concentration. Follow applicable regulations and good Industrial Hygiene practice.

Skin protection - other: Impervious clothing is require to prevent skin contact and contamination of personal clothing.

Other use precautions: An eye was facility and safety shower should be available in the work area.

9. Physical and chemical properties

Appearance: Green Liquid

Odor: Mild sharp odor

Odor threshold: No data available

pH: 3-6

Melting point: No data available

Initial boiling point and boiling range: >150 C (>302 F)

Flash point: >99.3 C (>210.74 F)

Evaporation rate (n-butyl acetate = 1): No data available

Lower explosion limit / flammability limit: No data available

Vapor pressure: <5 mmHg @ 25C (77F)

Relative vapor density: No data available

Relative density: 1.06 g

Solubility: Poorly soluble in water

Partition coefficient n-octanol/water (logarithmic value): No data available

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Viscosity: No data available

10. Stability and reactivity

Reactivity: May react with incompatible materials.

Chemical stability: Stable under normal storage and handling conditions.

Conditions to avoid: Keep away from heat and open flames.

Possibility of hazardous reactions: Hazardous polymerization will not occur.

Hazardous decomposition products: Thermal decomposition will produce oxides of carbon and nitrogen and other irritating organic vapors.

Incompatible materials: Oxidizing agents and peroxides.

11. Toxicological information

Acute toxicity

Notes:

Product ATE: 4367-5787 mg/kg (oral), >5000 mg/kg (skin)

Polyethylene Glycol Dimethacrylate: Oral rat LD50: >2000 mg/kg

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2-Hydroxyethyl methacrylate: Oral rat LD50: 5564 mg/kg, Skin rabbit LD50: >5000 mg/kg
 Maleic acid: Oral rat LD50: 1030 mg/kg, Skin rabbit LD50: 1560 mg/kg
 Ethylene glycol: Oral rat LD50: 500 mg/kg (point estimate), Inhalation rat LC50: >2.5 mg/L/6hr, Skin mouse LD50: >3500 mg/kg
 2, 6-Di-tert-butyl-p-cresol: Oral rat LD50: 890 mg/kg, Skin rat LD50: >2000 mg/kg
 Saccharin: Oral rat LD50: 8440-9710 mg/kg, Skin rabbit LD50: 4694 mg/kg
 Cumene hydroperoxide: Oral rat LD50: 382 mg/kg, Inhalation rat LC50: 1.37 mg/L/4hr, Skin rat LD50: 1200-1520 mg/kg
 Cumene: Oral rat LD50: 2260 mg/kg, Skin rabbit LD50: >3160 mg/kg

Skin corrosion / irritation: Causes severe skin irritation and burns. May cause allergic skin reaction (sensitization).

Serious eye damage / irritation: Causes severe irritation and burns. Permanent eye injury is likely.

Respiratory or skin sensitization: Inhalation of vapors may cause severe mucous membrane and respiratory irritation and burns. May cause allergic skin reaction (sensitization). This product is expected to cause skin sensitization.

Germ cell mutagenicity: This product is not expected to cause skin sensitization.

Carcinogenicity

Notes: Cumene is listed as Possible carcinogen to Humans (Group 2B) by IARC and Reasonably Anticipated to Be a Human Carcinogen by NTP. None of the other components of this product above 0.1% are listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, OSHA or the EU CLP.

Reproductive toxicity: None of the components are considered a reproductive hazard.

Specific Target Organ Toxicity - repeated exposure: Prolonged or repeated contact may cause allergic skin reaction (sensitization). Repeated exposure may cause damage to kidneys.

Aspiration hazard: Swallowing may cause severe irritation and burns to the mouth, throat, and gastrointestinal tract, abdominal pain, vomiting, diarrhea and collapse.

12. Ecological information

Ecotoxicological information:

2-Hydroxyethyl methacrylate: 96 hr LC50 Japanese Rice Fish: >100 mg/L, 48 hr EC50 Daphnia magna: 380 mg/L
 Maleic acid: 96 hr LC50 Rainbow trout: 75 mg/L, 48 hr EC50 Daphnia magna: 42.81 mg/L, 21 day NOEC Daphnia magna: 10 mg/L
 Ethylene glycol: 96 hr LC50 Fathead minnow: >100 mg/L
 2, 6-Di-tert-butyl-p-cresol: 96 hr LC50 Zebra fish: >0.57 mg/L, 48 hr EC50 Daphnia magna: 0.48 mg/L, 30 day NOEC Japanese Rice Fish: 0.053 mg/L, 21 days NOEC Daphnia magna: 0.069 mg/L
 Cumene hydroperoxide: 96 hr LC50 Rainbow trout: 3.9 mg/L, 48 hr EC50 Daphnia magna: 18.84 mg/L
 Cumene: 96 hr LC50 Rainbow trout: 4.8 mg/L, 48 hr EC50 Daphnia magna: 2.14 mg/L, 28 day NOEC Zebra fish: 0.38 mg/L, 21 days NOEC Daphnia magna: 0.35 mg/L

This product is expected to be toxic to the aquatic environment with long-term adverse effects. Releases to the environment should be avoided.

Bioaccumulative potential: No data available

General comments:

Persistence and Degradability: 2, 6-Di-tert-butyl-p-cresol: Not readily biodegradable.

13. Disposal considerations

Disposal methods: Dispose of in accordance with all local, state, and federal regulations.

14. Transport information

USA Department of Transport Regulations (DOT)

UN proper shipping name: NOT REGULATED (Vol capacity < 450L)

ICAO / IATA - air

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UN proper shipping name: ID8000, CONSUMER COMMODITY, 9 (IP VOL LESS THAN OR EQUAL TO 0.5 L); or UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (acrylic acid, maleic acid), 9, III (LTD QTY, IP VOL LESS THAN OR EQUAL TO 5.0 L)*

IMO / IMDG - International

UN proper shipping name: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (acrylic acid, maleic acid), 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, and rules relating to the transportation of the material.

15. Regulatory information

UNITED STATES

SARA Section 311/312 Hazard Categories


313 reportable ingredients: This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirements: Ethylene Glycol 107-21-1 <5%, Cumene 98-82-8 0.02-0.155%

CERCLA Hazardous Substances and Reportable Quantities (RQ)

CERCLA rq: This product has an RQ of 1,111lbs (based on the RQ of Cumene hydroperoxide of 10lbs present at 0.8-0.9%). Some states have more stringent reporting requirements. Report all spills in accordance with local, state, and federal regulations.

TSCA (The Toxic Substances Control Act)

TSCA Status: All of the ingredients of this product are listed on the TSCA inventory or exempt.

California Proposition 65:  **WARNING:** This product can expose you to chemicals including Cumene, which is known to the State of California to cause cancer, and Ethylene Glycol, 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.

16. Other information

Approved by: Pacer Technology Regulatory Affairs Department

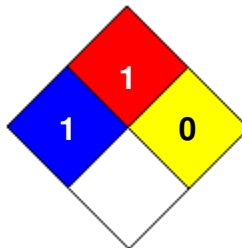
Prepared by: Pacer Technology Regulatory Affairs Department

Date revised: 10/04/2023

HMIS rating

Health	*	3
Flammability		1
Physical hazard		0
Personal protection		

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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