

# SAFETY DATA SHEET



**Date Issued :** 12/16/2014  
**MSDS No :** 11730032\_PT-104  
**Date-Revised :** 12/11/2018  
**Revision No :** 3

## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT DESCRIPTION:** ZAP PLASTIC MODEL CEMENT 1OZ (48)

### 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

Target Organ Toxicity (Single exposure) - Narcotic Effects, Category 3

#### Physical:

Flammable Liquids, 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



Flame

**SIGNAL WORD:** DANGER

### HAZARD STATEMENTS

H225: Highly flammable liquid and vapour.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

### PRECAUTIONARY STATEMENT(S)

#### Prevention:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P240: Ground and bond container and receiving equipment.

P241: Use explosion-proof electrical equipment.

P242: Use non-sparking tools.

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

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.

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## Response:

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or 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.  
 P312: Call a POISON CENTER or doctor/physician if you feel unwell.  
 P313: 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.  
 P405: Store locked up.

## Disposal:

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

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt. %	CAS
2-Butanone	50 - 99.9	78-93-3

## 4. FIRST AID MEASURES

**EYES:** Flush eye with water for 15 minutes. Get medical attention.

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

**INGESTION:** If swallowed, do not induce vomiting. Do not give anything to drink. Obtain immediate medical attention.

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

**EYES:** Causes eye irritation.

**SKIN:** Contact causes skin irritation.

**SKIN ABSORPTION:** Remove contaminated clothing and wash affected areas with soap and water. Prolonged or repeated contact can cause dermatitis in sensitive individuals. Contact a physician if irritation persists.

**INGESTION:** May be harmful if swallowed.

**INHALATION:** May cause temporary dizziness, headache and possible nausea if used in poorly ventilated area.

**ACUTE EFFECTS:** Eye, skin and respiratory irritant.

**CHRONIC EFFECTS:** Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

## 5. FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Dry chemical, carbon dioxide or Halon extinguisher.

**HAZARDOUS COMBUSTION PRODUCTS:** Combustible by-products of carbon monoxide and dioxide.

**EXPLOSION HAZARDS:** Vapors can travel to a source of ignition and flash back.

**FIRE FIGHTING PROCEDURES:** Use water spray to keep fire-exposed containers cool and to knock down vapors which may

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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.

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

**SENSITIVE TO STATIC DISCHARGE:** None known.

**SENSITIVITY TO IMPACT:** None known.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon Monoxide, carbon dioxide and unknown fumes.

## 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Absorb liquid and place in sealed container for disposal. Vapors can travel to an ignition source.

**LARGE SPILL:** Remove all sources of ignition. Use spark-proof tools. Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Absorb liquid and place in sealed container for disposal. Vapors can travel to an ignition source.

### ENVIRONMENTAL PRECAUTIONS

**WATER SPILL:** Dike area to contain spill. Take precautions as necessary to prevent contamination of ground and surface waters. Recover spilled material on adsorbent, such as sawdust or vermiculite, and sweep into closed containers for disposal. After all visible traces, including ignitable vapors, have been removed thoroughly wet vacuum the area. Do not flush to sewer. If area of spill is porous, remove as much contaminated earth and gravel, etc. as necessary and place in closed containers for disposal.

**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:** None known.

**GENERAL PROCEDURES:** Contain spill with dike to prevent entry into sewers. Absorb liquid and place in sealed containers for disposal.

**SPECIAL PROTECTIVE EQUIPMENT:** Wear a self-contained breathing apparatus and appropriate personal protective equipment. (See Exposure Controls/Personal Protection Section).

## 7. HANDLING AND STORAGE

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

**HANDLING:** Use with sufficient ventilation to keep employee exposure below recommended limits. Provide adequate ventilation for storage, handling and use, especially for enclosed or low spaces. Avoid contact of liquid with eyes and prolonged skin exposure. Do not allow product to contact open flame or electrical heating elements because dangerous decomposition products may form.

**STORAGE:** Store in a cool, well-ventilated area of low fire risk. Spray mist and vapors are flammable.

**STORAGE TEMPERATURE:** No data available on this product.

**LOADING TEMPERATURE:** No data available on this product.

**LOADING/UNLOADING VISCOSITY:** No data available on this product.

**STORAGE PRESSURE:** No data available on this product.

**SPECIAL SENSITIVITY:** None known.

**ELECTROSTATIC ACCUMULATION HAZARD:** None known.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)				
EXPOSURE LIMITS				
Chemical Name	Type		ppm	mg/m <sup>3</sup>
2-Butanone	OSHA PEL	TWA	200	590
	ACGIH TLV	TWA	200	590
		STEL	300	885

**ENGINEERING CONTROLS:** Observe limits for Methyl Ethyl Ketone - OSHA PEL = 200ppm; ACGIH TLV = 200ppm.

### 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:** Safety glasses, neoprene gloves and protective apron are recommended for use.

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

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Flammable liquid and vapor.

**ODOR:** Characteristic odor, intensely irritating.

**ODOR THRESHOLD:** Not Established

**APPEARANCE:** Transparent, colorless liquid

**COLOR:** Clear, transparent.

**pH:** Not established.

**PERCENT VOLATILE:** No data available on this product.

**FLASHPOINT AND METHOD:** -4°C (25°F) CC - Closed Cup

**FLAMMABLE LIMITS:** 1.7% to 10%

**AUTOIGNITION TEMPERATURE:** Not Established

**VAPOR PRESSURE:** 78 mm Hg at 20°C (68°F)

**VAPOR DENSITY:** > 1 (Air=1)

**BOILING POINT:** 79°C (174°F) to 87°C (189°F)

**FREEZING POINT:** No data available on this product.

**MELTING POINT:** No data available on this product.

**POUR POINT:** No data available on this product.

**THERMAL DECOMPOSITION:** No data available on this product.

**SOLUBILITY IN WATER:** 18.9 % at 23°C (73°F)

**PARTITION COEFFICIENT: N-OCTANOL/WATER:** No data available on this product.

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**EVAPORATION RATE:** < 1 (n-Butyl Acetate=1)  
**SPECIFIC GRAVITY:** 0.877 (water=1)  
**VISCOSITY #1:** 700 to 900 Centipoise  
**(VOC):** 614 g/L

## 10. STABILITY AND REACTIVITY

**HAZARDOUS POLYMERIZATION:** No

**STABILITY:** Stable

**CONDITIONS TO AVOID:** Heat, flames, ignition sources, and incompatibles.

**POSSIBILITY OF HAZARDOUS REACTIONS:** Under normal conditions of storage and use, hazardous reactions will not occur.

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

**INCOMPATIBLE MATERIALS:** Strong acids and alkalis, reactive metals and strong oxidizing agents.

## 11. TOXICOLOGICAL INFORMATION

### ACUTE TOXICITY

Chemical Name	ORAL LD <sub>50</sub> (rat)	DERMAL LD <sub>50</sub> (rabbit)
2-Butanone	2483 mg/kg (rat)	5000 mg/kg (rabbit)

**SKIN CORROSION/IRRITATION:** No data available

**SERIOUS EYE DAMAGE/IRRITATION:** May cause eye irritation, skin irritation and irritation of respiratory tract.

**RESPIRATORY OR SKIN SENSITISATION:** No data available

**GERM CELL MUTAGENICITY:** No data available

**REPRODUCTIVE TOXICITY:** No data available

## 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL DATA:** Avoid runoff into storm sewers and ditches which lead to waterways.

**ECOTOXICOLOGICAL INFORMATION:** No data available on this product.

**BIOACCUMULATION/ACCUMULATION:** No data available on this product.

**AQUATIC TOXICITY (ACUTE):** No data available on this product.

## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Dispose of in a manner consistent with federal, state, and local regulations.

## 14. TRANSPORT INFORMATION

### DOT (DEPARTMENT OF TRANSPORTATION)

**PROPER SHIPPING NAME:** UN1133, ADHESIVES CONTAINING FLAMMABLE LIQUID, 3, II, (LTD QTY, IP VOL LESS THAN OR EQUAL TO 1.0 L)

### AIR (ICAO/IATA)

**SHIPPING NAME:** ID8000, CONSUMER COMMODITY, 9 (IP VOL LESS THAN OR EQUAL TO 0.5 L); or UN1133,

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ADHESIVES CONTAINING FLAMMABLE LIQUID, 3, II, (LTD QTY, IP VOL LESS THAN OR EQUAL TO 0.5 L)\*

## VESSEL (IMO/IMDG)

**SHIPPING NAME:** UN1133, ADHESIVES CONTAINING FLAMMABLE LIQUID, 3, II, (LTD QTY, IP VOL LESS THAN OR EQUAL TO 5.0 L)\*

**COMMENTS:** \* This product may be shipped as EXCEPTED QUANTITIES OF CLASS 3, UN1 133 (IP VOL LESS THAN OR EQUAL TO 0.03 L, OP VOL LESS THAN OR EQUAL TO 0.5 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)

**313 REPORTABLE INGREDIENTS:** Section 313: Methyl ethyl ketone.

#### EPCRA SECTION 313 SUPPLIER NOTIFICATION

Chemical Name	Wt.%	CAS
2-Butanone	50 - 99.9	78-93-3

#### CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

Chemical Name	Wt.%	CERCLA RQ
2-Butanone	50 - 99.9	5,000

#### TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS
2-Butanone	78-93-3

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

**CALIFORNIA PROPOSITION 65:** No California Proposition 65 ingredients are known to be in this product. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

## 16. OTHER INFORMATION

**TITLE:** Pacer Technology Regulatory Department

**PREPARED BY:** Pacer Technology Regulatory Department **Date-Revised:** 12/11/2018

**REVISION SUMMARY:** This MSDS replaces the 03/18/2015 MSDS. Revised: **Section 1:** 24 HR. EMERGENCY TELEPHONE NUMBERS, MSDS No, PREPARED BY, TITLE. **Section 2:** . **Section 3:** Wt.%. **Section 5:** FLAMMABLE CLASS. **Section 9:** FLASHPOINT AND METHOD. **Section 10:** COMMENTS, STABLE. **Section 11:** ACUTE ( ORAL LD<sub>50</sub> (rat), INHALATION LC<sub>50</sub> (rat) ACUTE, CARCINOGENICITY, GERM CELL MUTAGENICITY, REPRODUCTIVE TOXICITY, , STOT-SINGLE EXPOSURE, SKIN CORROSION/IRRITATION. **Section 14:** AIR (ICAO/IATA) - SHIPPING NAME COMMENTS, DOT (DEPARTMENT OF TRANSPORTATION) - PROPER SHIPPING NAME VESSEL (IMO/IMDG) - SHIPPING NAME. **Section 15:** WHMIS

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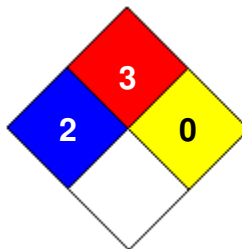
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(WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM), WHMIS CLASS. **Section 16: HMIS RATING - HEALTH**  
 NFPA CODES - HEALTH.

## HMIS RATING

HEALTH	<input type="checkbox"/>	2
FLAMMABILITY	<input type="checkbox"/>	3
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.