

## Section 1: Identification


**PRODUCT IDENTIFIER:** ACRYLIC Plus Hardener

**CHEMICAL FAMILY:** Isobutyl Methacrylate: CAS Number – 97-86-9

**EMERGENCY PHONE:** CHEMTREC 800-424-9300 (US) Day or night  
Customer No. 16568

**MANUFACTURER:** PACE Technologies  
3601 E. 34<sup>th</sup> St., Tucson, AZ 85718  
Tucson, Arizona USA  
Phone: +1 520-882-6598  
FAX: +1 520-882-6598

## Section 2: Hazard(s) Identification

<b>GHS CLASIFICATION:</b>	Flammable liquid (Category 3) Skin corrosion / irritation (Category 2) Skin sensitization (Category B) Serious eye damage/ eye irritation (Category 2A) STOT – single exposure (Category 3) Hazardous to the aquatic environment – Acute hazard (Category 1)
<b>PICTOGRAM(s):</b>	
<b>SIGNAL WORD:</b>	Warning
<b>HAZARD STATEMENTS:</b>	<b>Hazard Statement(s):</b> H226 – Flammable liquid and vapor H315-Causes skin irritation H317-May cause an allergic skin reaction H319-Causes eye irritation H335-May cause respiratory irritation H400-Very toxic to aquatic life
<b>PRECAUTIONARY STATEMENTS:</b>	<b>Precautionary Statement(s):</b> <b>Preventions:</b> P210- Keep away from heat/sparks/open flames/hot surfaces. — No smoking. P233- Keep container tightly closed. P240- Ground/bond container and receiving equipment.

P241- Use explosion-proof electrical/ventilating/lighting/equipment  
P242- Use only non-sparking tools.  
P243- Take precautionary measures against static discharge.  
P261-Avoid breathing dust/fume/gas/mist/vapors/spray.  
P264-Wash hands thoroughly after handling.  
P271-Use only outdoors or in a well-ventilated area.  
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.

**Response:**

P302+P352-IF ON SKIN: wash with plenty of soap and water.  
P303 + P361 + P353- IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower.  
P304+P340-IF INHALED: Remove victim 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.  
P333+P313-IF SKIN irritation or rash occurs: Get medical advice/attention.  
P337-P313-IF eye irritation persists: Get medical advice/attention.  
P362-Take off contaminated clothing and wash before reuse.  
P370 + P378- In case of fire: Use water spray, foam, dry powder or CO2 for extinction.  
P391- Collect spillage. Hazardous to the aquatic environment

**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 contents/container to Federal, State and Local Regulations. Incinerate under approved controlled conditions, using incinerators suitable for the disposal of flammable organics.

---

### Section 3: Composition/Information on Ingredients

<u>CHEMICAL NAME</u>	<u>CAS NO.</u>	<u>%</u>
ISO-BUTYL METHACRYLATE	97-86-9	>90

**Ingredients are listed on the TSCA Inventory of Chemical Substances. Those not identified are non-hazardous.**

---

#### Section 4: First-Aid Measures

<b>INHALATION:</b>	If affected by inhalation of vapor or spray mist, remove to fresh air. If having breathing difficulty, administer oxygen. If not breathing, give artificial respiration. If breathing difficulty persists, or occurs later, consult a physician..
<b>SKIN OR EYE CONTACT:</b>	In case of contact, immediately flush with plenty of water for at least 15 minutes; call a physician. In case of skin contact, wash with soap and water. If irritation occurs, contact a physician.
<b>INGESTION:</b>	DO NOT INDUCE VOMITTING. Immediately give two glasses of water, or activated charcoal slurry. Never give anything by mouth to an unconscious person. Call a physician.

---

#### Section 5: Fire-Fighting Measures

<b>FLAMMABLE PROPERTIES:</b>	Flammable liquid. Vapors or gases may travel considerable distance to ignition source and flash back.
<b>FLASH POINT:</b>	42.5-45.5°C
<b>METHOD:</b>	Closed cup
<b>FLAMMABLE LIMITS</b>	Lower 1-2% Upper 7.4-8
<b>FIRE AND EXPLOSION HAZARDS:</b>	Fine mist or sprays may be flammable at temperature below the flash point. Sealed containers exposed to elevated temperatures may rupture explosively due to polymerization. Vapors are heavier than air and may travel to ignition source.
<b>EXTINGUISHING MEDIA:</b>	Dry chemical, Foam, Water fog (by trained personnel), CO <sub>2</sub>
<b>FIRE FIGHTING INSTRUCTIONS:</b>	Full protective equipment, including self-contained breathing apparatus, is recommended. Cool containers with water spray to prevent pressure build-up. Fight fires from a safe distance or protected areas. Heat may rupture containers.

---

## Section 6: Accidental Release Measures

**SAFEGUARDS  
(PERSONNEL):**

NOTE: Review FIRE FIGHTING MEASURES AND HANDLING (PERSONNEL) sections before proceeding with clean up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean up.

Evacuate personnel, thoroughly ventilate area, and use self-contained breathing apparatus.

**INITIAL CONTAINMENT:**

Remove source of heat, sparks, flame, impact, friction or electricity. Dike spill. Prevent material from entering sewers, waterways, or low areas.

**SPILL CLEAN UP:**

Soak up with sand, oil dry or other absorbent, non-combustible material. Cleaned up material is a RCRA Hazardous Waste.

---

## Section 7: Handling and Storage

**HANDLING (PERSONNEL):**

Do not breathe vapor or mist. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling.

**HANDLING (PHYSICAL  
ASPECTS):**

Close container after each use. Ground container when pouring. Keep away from heat, sparks and flames.

**STORAGE:**

Vapors are uninhibited and may form polymers in vents or flame arresters, resulting in blockage of vents.

Keep container in a cool place. DO NOTE expose to direct sunlight. Store in a well ventilated place. Keep container tightly closed. Store in accordance with National fire Protection Association recommendations.

Maintain air space inside storage containers. Inhibitor requires air (oxygen) contact to function.

**ENGINEERING CONTROLS:**

Keep container tightly closed.

Observe label precautions.

Use ventilation that is adequate to keep employee exposure to airborne concentrations below exposure limits.

## Section 8: Exposure Controls/ Personal Protection

**EYE/FACE PROTECTION:** Wear safety glasses. Wear coverall chemical splash goggles and face shield when possibility exists for eye and face contact due to splashing or spraying material.

**RESPIRATORS:** A NIOSH/MSHA approved air-purifying respirator with an organic vapor cartridge canister may be permissible under certain limited circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

**PROTECTIVE CLOTHING:** Wear impervious clothing to prevent ANY contact with this product, such as gloves, apron, boots, or whole body suit. Nitrile rubber is better than PVC.

---

## Section 9: Physical and Chemical Properties

**BOILING POINT:** 155 deg. C at 760 mm/Hg

**VAPOR PRESSURE:** 2.4-4 mm/Hg at 20 deg. C

**VAPOR DENSITY:** 4.9 at 15.5 deg. C

**% VOLATILES:** 100% by weight and volume

**SOLUBILITY IN WATER:** <0.05% at 20 deg C  
**SOLUBILITY OTHERS:** Miscible with most organic solvents

**ODOR:** TYPICAL "METHACRYLATE"

**FORM:** Liquid

**SPECIFIC GRAVITY:** 0.896 grams/cc at 15,5 deg. C

**FREEZING POINT:** -34 deg. C

**VAPOR DENSITY:** 4.9 (air=1)

**PARTITION COEFFICIENT:** 2.66

## Section 10: Stability and Reactivity

<b>CHEMICAL STABILITY:</b>	Stable
<b>CONDITIONS TO AVOID:</b>	Avoid heat, ignition sources and contamination.
<b>INCOMPATIBILITY WITH OTHER MATERIALS:</b>	Incompatible with reducing and oxidizing agents. Material has strong solvent properties and can soften paint or rubber.
<b>DECOMPOSITION:</b>	Hazardous Decomposition Products: CO, CO <sub>2</sub> , smoke.
<b>POLYMERIZATION:</b>	Polymerization can occur.
<b>CONDITIONS TO AVOID FOR HAZARDOUS POLYMERIZATION:</b>	Excessive heat, storage in absence of inhibitor; inadvertent addition of catalyst.

---

## Section 11: Toxicological Information

<b>ANIMALS:</b>	Oral LD <sub>50</sub> > 9,950 mg/kg in rats Isobutyl methacrylate is irritating to the skin and eyes and is a skin sensitizer in animals.
<b>INHALATION:</b>	Unlikely to be hazardous by inhalation. High concentrations of dust may be irritant to the upper respiratory tract. High concentrations of vapor from hot operations may be harmful, cause irritation of the respiratory tract, and slight narcotic effects.
<b>OTHER POTENTIAL HAZARDS:</b>	Inhalation and feeding studies on laboratory animals at high doses have shown nonspecific effects such as irritation and moderate blood changes. Very high airborne levels may cause lung damage.
<b>SKIN CONTACT:</b>	May cause sensitization by skin contact. Irritating to skin. Repeated and/or prolonged contact may cause dermatitis
<b>EYE CONTACT:</b>	Irritating to eyes.
<b>INGESTION:</b>	Low oral toxicity but ingestion may cause irritation of the gastrointestinal tract.
<b>LONG TERM EXPOSURE:</b>	This material has been used for many years with no evidence of adverse

effects. There is no evidence of mutagenic potential. Inadequate information available to assess carcinogenic hazard. Some evidence of potential for developmental toxicity but inadequate information is available to assess the tetragenic hazard. By analogy with other methacrylates it is unlikely that iso-butyl methacrylate represents a tetragenic hazard to man. None of these effects are likely to occur in humans provided exposure is maintained at or below the occupational exposure limit.

---

## Section 12: Ecological Information

<b>ENVIRONMENTAL FATE AND DISTRIBUTION:</b>	High tonnage material produced in wholly contained systems. Liquid with moderate volatility volatility. Sparingly soluble in water. Moderate potential for bioaccumulation. Predicted to have moderate mobility in soil.
<b>PERSISTENCE AND DEGRADATION:</b>	Readily biodegradable. 74% in 28 days.
<b>TOXICITY:</b>	Very toxic to aquatic organisms. The LC50 (rainbow trout) (96 hr) (flow through) 20 mg/L. EC50(Daphnia magna) (48 hr) >29 mg/L.
<b>EFFECT ON EFFLUENT TREATMENT:</b>	The product is substantially removed in biological treatment processes.

---

## Section 13: Disposal Considerations

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not flush to surface or sanitary sewer system. Incinerate in a facility, which complies with Federal, State and local requirements. Do not incinerate in closed containers.

---

## Section 14: Transportation Information

### SHIPPING INFORMATION

PROPER SHIPPING NAME: Isobutyl methacrylate, stabilized

NA/UN NUMBER: UN 2283

CLASS 3

PACKING GROUP: III

LABEL: Flammable liquid

IDMG CLASS: 3

GROUND TRANSPORT: Not regulated – Domestic containers of less than 450L capacity are not regulated by DOT

---

## Section 15: Regulatory Information

EC REGULATIONS-  
EINECS: all chemical listed

EEC Classification: FLAMMABLE AND IRRITANT

Symbol: Indication of Danger



F- Highly Flammable



Xi - Irritant

Risk Phrases: R10. Flammable  
R36/37/38. Irritating to eyes, respiratory system and skin.  
R43. May cause sensitization by skin contact.  
R50. Very toxic to aquatic organisms.

Safety Phrases: S24. Avoid contact with skin.  
S37. Wear suitable gloves.  
S61. Avoid release to the environment. Refer to special instructions/Safety Data Sheet.

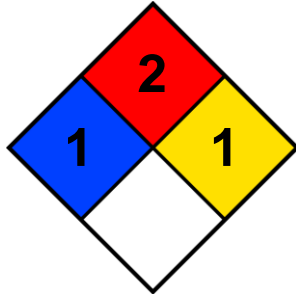
CANADIAN REGULATIONS- B3. Combustible Liquid  
DSL: Included D2B. Toxic Material Skin or eye irritant  
WHIMS: F. Dangerously reactive material

TSCA Inventory Status: Reported/Included



**Section 16: Other Information**

**16.1 NFPA Diamond**



**Top, Flammability: 1 – Slight Hazard**

**Left, Health Hazard: 2 – Moderate Hazard**

**Right, Reactivity: 1 – Slight Hazard**

**Bottom, Special Notice: N/A**

Additional Information

NA = NOT APPLICABLE

NE = NOT ESTABLISHED

**Disclaimer:**

**PACE Technologies, Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. PACE TECHNOLOGIES, INC. MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, PACE TECHNOLOGIES, INC. WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION.**

DATE REVISED: 5/6/2020 DZ