## 1. PRODUCT AND COMPANY IDENTIFICATION

| | |
|---|---|
| 1.1 Product Name: | Join.It ZILCH Adhesive |
| 1.2 Product Use: | Surfacing adhesive |
| 1.3 Manufacturer: | Princeton Chemical Company<br>7030 Quad Avenue #3<br>Rosedale, MD 21237<br><br>Telephone 877-778-6878 |

1.4 24 Emergency Telephone Number (24-hours) CHEMTRAC 800.424.9300

## 2. HAZARD IDENTIFICATION

2.1 Classification of the product or mixture

| | |
|---|---|
| Flammable Liquid: Category 3 | H226 |
| Causes Minor Skin Irritation: Category 3 | H316 |
| May cause allergic skin reaction: Category 1 | H317 |
| Causes eye irritation: Category 2B | H320 |

2.2 Label Elements

| | |
|---|---|
| Pictograms | |
| Signal Word: | Warning |
| Hazard Statements: | H226: Flammable liquid and vapor<br>H316: Causes Minor Skin Irritation<br>H317: May cause allergic skin reaction<br>H320: Causes eye irritation |
| Precautionary Statements: | P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources -No smoking<br>P270: Do not eat, drink or smoke when using this product<br>P273: Avoid release to the environment<br>P280: Wear protective gloves/protective clothing/eye protection /face protection |

2.3 Other Hazards (description of any hazards not otherwise classified)
Not applicable.

2.4 Unknown Toxicity (statement describing percentage of mixture consists of ingredients with unknown acute toxicity.
Not applicable

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixture composition

| **Chemical Name** | **% (w/w)** | **CAS No.** | **EINECS No.** |
|---|---|---|---|
| **Part A** | | | |
| Methyl Methacrylate (MMA) | 30-60 | 80-62-6 | 201-1970-1 |
| Poly Methyl Methacrylate (PMMA) | 25-40 | 9011-14-7 | 201-297-1 |
| Aluminum Tri-hydrate (ATH) | 0-30 | 21645-51-2 | 244-492-7 |
| **Part B** | | | |
| Benzoyl Peroxide | 3-7 | 94-36-0 | 202-327-6 |
| Mixture of Benzoate Esters | 93-97 | proprietary | |

## 4. FIRST AID MEASURES

4.1 Description of first aid measures

If Swallowed: Rinse mouth. Do NOT induce vomiting
If on Skin: Take off immediately all contaminated clothing. Rinse SKIN with water (or shower)
If Inhaled: Remove person to fresh air and keep comfortable for breathing.
in eyes: Rinse cautiously with water for 15 minutes. Remove contact lenses if present and easy to do; continue rinsing.

## 5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Foam, Dry Chemical, CO2.
Use chemical foams for extinguishing flaming pools of material.

5.2 Flammable Properties
Flash Point: 51 F (11 C) Method: TCC (for Part A)
375 F (191 C) Method: COC (for Part B)

Part A: Flammable liquid. Vapor forms explosive mixture with air. Vapors or gases are heavier than air and may travel considerable distances to an ignition source and flash back. Susceptible to spontaneous heating. Sealed containers may rupture explosively due to polymerization if exposed to elevated temperatures.
Part B: Peroxides and decomposition products are flammable and can ignite with explosive force if confined.

5.3 Fire Fighting Instructions
Evacuate personnel to a safe area. Wear self-contained breathing apparatus. Wear full protective equipment. Use water spray.

## 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Initial Containment
Remove source of heat, sparks, flame, impact, friction or electricity. Prevent material from entering sewers, waterways, or low areas.

6.2 Methods and materials for containment and cleanup procedures
Spill Clean Up
Soak up with sand, oil dry, or other noncombustible absorbent materials.
Scrape up and hold for proper disposal.

## 7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Do not breathe vapor or mist. Do not get in eyes. Avoid contact with skin. Avoid contact with clothing. Wash thoroughly after handling. Wash contaminated clothing prior to reuse. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material

7.2 General hygiene
Use of non-sparking and explosion-proof equipment may be necessary depending on type of operation. Keep away from heat, sparks and flames. Close container after each use.

7.3 Conditions for safe storage, including incompatibilities
Store in a cool, dark place. Store below 77°F (25°C). Store in a well ventilated place. Keep container tightly closed.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters
Personal Protective Equipment
Eye/Face: Coverall chemical splash goggles.
Additional: Polyethylene apron.

Protective Gloves: PVA coated rubber or nitrile

8.2 Exposure Controls

Engineering Controls: Use local exhaust ventilation to keep employee exposure to airborne concentrations below recommended exposure limits.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on physical and chemical properties

| | |
|---|---|
| Appearance | Clear to milk viscose liquid |
| Upper/lower flammability or explosive limits | N/A |
| Odor | Ester |
| Relative density | 1.1 – 1.25 g/L |
| Solubility in water | 1.4 – 1.7 g/L Part A and 0.05 g/L Part B |
| Initial boiling point | 214°F (101°C) |
| Flash point | 15°C |
| Evaporation rate | 3 (Butyl Acetate=1.0) (Part A), N/A (Part B) |
| Viscosity | Not Available |

## 10. STABILITY AND REACTIVITY

10.1 Chemical Stability
Stable at normal temperatures and storage conditions.
Avoid heat and ignition sources, direct sunlight and contact with oxidizers

10.2 Incompatibility with Materials
Part A is incompatible with reducing and oxidizing agents. Generates heat when mixed with oxidizers.
Part B is incompatible with oxidizing materials, strong acids, strong bases, strong alkalis, reducing agents, accelerators.

10.3 Polymerization
Part A will polymerize. Conditions leading to unintentional polymerization include exposure to abnormal temperatures, direct sunlight or oxidizing agents.

10.4 Hazardous decomposition products
Combustion products include carbon monoxide, carbon dioxide, smoke, toxic and from Part A, flammable and toxic biphenyl.

## 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

There is no toxicity data for the formulated product

## 12. ECOLOGICAL INFORMATION

12.1 Ecotoxicological Information

AQUATIC TOXICITY: Methyl Methacrylate Monomer 96 hour LC50 - Fathead minnows: 150 ppm

## 13. DISPOSAL CONSIDERATIONS

Waste Disposal

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not flush to surface water or sanitary sewer system. Do not incinerate in closed containers.

## 14. TRANSPORT INFORMATION

DOT Proper Shipping Name: Adhesive
Hazard Class: 3
I.D. No. (UN/NA): UN1133
Packing Group: II
DOT Label(s): Flammable Liquid
DOT Special Information: For containers less than one liter
Proper Shipping Name: Consumer Commodity
Hazard Class: ORM-D

## 15. REGULATORY INFORMAITON

U.S. Federal Regulations

TSCA Inventory Status: In compliance with TSCA Inventory requirements for commercial purposes.
RCRA: Under RCRA, it is the responsibility of the product user to determine at the time of disposal whether a material containing the product or derived from the product should be classified as a hazardous waste

State Regulations (U.S.)

California Proposition 65, Safe Drinking Water and Toxicity Enforcement Act, 1986: None listed

## 16. OTHER INFORMATION

NPCA-HMIS Rating

Health: Part A: 2, Part B: 1
Flammability: Part A: 3; Part B: 1
Reactivity: Part A: 1; Part B: 1

Disclaimer: This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Princeton Chemical Company. The data on this sheet relates only to specific material designated herein. Princeton Chemical assumes no legal responsibility for use or reliance upon these data.