



Section 1. Product and Company Identification

**Product Name** Hydrogenated Polyisobutene  
**CAS Number** 68937-10-0

**Parchem - fine & specialty chemicals**

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EMERGENCY RESPONSE NUMBER  
CHEMTEL

Toll Free US & Canada: 1 (800) 255-3924

All other Origins: 1 (813) 248-0585

Collect Calls Accepted

Section 2. Hazards Identification

**GHS Label Elements**

**Signal Word:** No signal word.

**Precautionary Statements:** Not available.

**Other Hazards which do not Result in Classification:** Not available.

**Label Requirements**

**OSHA/HCS Status:** While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

**Emergency Overview:** Keep away from heat, sparks and flame. Keep container closed. Do not breathe vapor or mist. Use only with adequate ventilation. Do not ingest. Avoid contact with eyes. Wash thoroughly after handling.

**HMIS Rating**

**Health:** 0

**Flammability:** 1

**Physical Hazards:** 0

**NFPA Rating**

**Health:** 0

**Flammability:** 1

**Instability:** 0



Section 3. Composition / Information on Ingredients

**Common Name** Hydrogenated Polyisobutene  
**Synonym(s)** Butene, homopolymer, hydrogenated  
**CAS Number** 68937-10-0

COMPONENT	CAS NUMBER	CONCENTRATION
Hydrogenated Polyisobutene	68937-10-0	100%

Section 4. First Aid Measures

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Ingestion:** Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities swallowed, wash out mouth and call physician.

**Skin Contact**

Hot material: Immediately flush with cool water for at least 15 minutes. Get immediate medical attention.

Cold material: Clean exposed skin with waterless hand cleaner.

**Eye Contact**

Hot material: Flush eyes with plenty of water for at least 15 minutes. Seek medical assistance for mechanical removal of this material from the eye. The use of flush fluid, other than water, is not recommended.

Cold material: Flush eyes with plenty of water.

**Indication of Immediate Medical Attention and Special Treatment needed, if Necessary**

**Specific Treatments:** Not available

**Notes to Physician:** Medical personnel may leave the material in place to minimize physical damage to the skin. Medical personnel may cover the material with a burn gel to prevent the adhesion of the dressing to the material.

**Protection of First-aiders:** No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Section 5. Firefighting Measures

**Extinguishing Media**

**Suitable:** In case of fire, use water fog, foam, dry chemicals, or carbon dioxide.

**Not Suitable:** Do not use water jet.



**Specific Hazards arising from the Chemical:** Rapid depolymerization can occur in a fire and produce flammable vapors. May depolymerize at temperatures above 200°C with the production of extremely flammable butene monomers.

Where open cell insulation has been contaminated with polybutene, spontaneous combustion may occur at temperatures as low as 138°C (280°F). Therefore, where open cell insulation has been used, the temperature of storage tanks and heat tracing must be kept well below 120°C (250°F) and any insulation contaminated with polybutene should be replaced immediately.

**Hazardous Thermal Decomposition Products:** Carbon Oxides (CO, CO<sub>2</sub>)

**Special Precautions for Firefighters:** Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Cool closed containers exposed to fire with water.

**Special Protective Equipment for Firefighters:** Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

**Remark:** No additional remark

**Flammability of the Product:** May be combustible at high temperature.

#### Section 6. Accidental Release Measures

**Personal Precautions, Protective Equipment, and Emergency Procedures:** Immediately contact emergency personnel. Eliminate all ignition sources. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Use suitable protective equipment (section 8). Follow all fire-fighting procedures (section 5).

**Environmental Precautions:** If emergency personnel are unavailable, carefully scoop up spilled materials and use a non-sparking or explosion-proof means to transfer material to an appropriate container for disposal by incineration.

#### Methods and Materials for Containment and Cleaning Up

**Small Spill:** For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container for disposal.

**Large Spill:** For large spills, dike spilled material, or otherwise contain it, to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal. Avoid contact of spilled material with soil and prevent runoff entering surface waterways. Treat as an oil spill. Insoluble in water. See section 13 for waste disposal information.

#### Section 7. Handling and Storage

**Precautions for Safe Handling:** Do not ingest. If ingested, do not induce vomiting. Use only with adequate ventilation. Do not breathe vapor or mist. Avoid prolonged or repeated contact with skin. Avoid contact with eyes. Wash thoroughly after handling.

Keep away from heat, sparks and flame. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Use explosion-proof electrical/ventilating/lighting/material handling equipment.



Where open cell insulation has been contaminated with polybutene, spontaneous combustion may occur at temperatures as low as 138°C (280°F). Therefore, where open cell insulation has been used, the temperature of storage tanks and heat tracing must be kept well below 120°C (250°F) and any insulation contaminated with polybutene should be replaced immediately.

Empty containers may contain harmful, flammable/combustible or explosive residue or vapors. Do not cut, grind, drill, weld, reuse or dispose of containers unless adequate precautions are taken against these hazards.

Avoid contact of spilled material and runoff with soil and surface waterways.

**Conditions for Safe Storage, Including any Incompatibilities:** Store in a segregated and approved area. A potentially flammable atmosphere may be generated if material is held hot for prolonged periods. For prolonged storage at temperatures of 60°C and above, keep in rust-free tanks and exclude oxygen by use of a nitrogen blanket. Heating systems which generate localized hot spots should never be used. Suitable storage materials are: mild steel / carbon steel. Store and use away from heat, sparks, open flame or any other ignition source. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use.

#### Section 8. Exposure Controls / Personal Protection

##### **Control Parameters**

**Occupational Exposure Limits:** None

**Appropriate Engineering:** Use only with adequate ventilation

**Environmental Exposure Controls:** Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

##### **Individual Protection Measures**

**Hygiene Measures:** Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

**Respiratory Protection:** If ventilation is inadequate, use respirator that will protect against organic vapor and dust/mist.

**Hand Protection:** Wear gloves that cannot be penetrated by chemicals or oil.

The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). Most gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

**Eye Protection:** Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

**Skin Protection:** Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.



Section 9. Physical and Chemical Properties

**Physical State:** Liquid  
**Color:** Clear and colorless  
**Odor:** Characteristic

**Flash Point**

**Closed Cup:** > 115°C (> 239°F) [Pensky-Martens]

**Open Cup:** > 138°C (> 280.4°F) [Cleveland]

**Relative Density:** 0.825

**Solubility:** Insoluble in cold water.

**Viscosity (Kinematic):** 0.27 - 0.37 cm<sup>2</sup>/s (27 - 37 cSt)

Section 10. Stability and Reactivity

**Chemical Stability:** The product is stable

**Possibility of Hazardous Reactions:** May depolymerize at temperatures above 200°C with the production of extremely flammable butene monomers.

**Conditions to Avoid:** Keep away from all sources of ignition, heat, sparks, flame. Avoid strong oxidizing conditions. Avoid extended exposure to temperatures above 60°C in the presence of air. May depolymerize at temperatures above 200°C with the production of extremely flammable butene monomers.

**Incompatible Materials:** Strong oxidizing agents; acidic clays at > 100°C

**Hazardous Decomposition Products:** Carbon Oxides (CO, CO<sub>2</sub>)

Section 11. Toxicological Information

**Information on the likely Routes of Exposure**

**Inhalation:** Exposure to aerosols or particulates may cause adverse lung effects if high concentrations are inhaled.

**Ingestion:** Ingestion may cause gastrointestinal irritation and diarrhea.

**Skin Contact:** Prolonged or repeated contact may dry skin and cause irritation. Heated material can cause thermal burns.

**Eye Contact:** May cause slight transient irritation. Heated material can cause thermal burns.

**Acute Toxicity**

**LC50 Inhalation Vapor:** 4,820 mg/m<sup>3</sup> (Rat, 4 hours)

**LD50 Dermal:** > 10,250 mg/kg (Rat)

**LD50 Oral:** > 34,600 mg/kg (Rat)



### Potential Chronic Health Effects

**Carcinogenicity:** No component of this product at levels greater than 0.1% is identified as a carcinogen by ACGIH or the International Agency for Research on Cancer (IARC). No component of this product present at levels greater than 0.1% is identified as a carcinogen by the U.S. National Toxicology Program (NTP) or the U.S. Occupational Safety and Health Act (OSHA).

**Mutagenicity:** No component of this product at levels greater than 0.1% is classified by established regulatory criteria as a mutagen.

**Teratogenicity:** No component of this product at levels greater than 1% is classified by established regulatory criteria as teratogenic or embryotoxic.

**Developmental Effects:** No known significant effects or critical hazards.

### Section 12. Ecological Information

**Ecotoxicity:** No known significant effects or critical hazards.

**EC50:** > 1,000 mg/L (Daphnia, 96 hours)

**LC50:** > 1,000 mg/L - similar material (Fish - Minnows, 96 hours)

**LC50 Oral:** > 1,000 mg/L - similar material (Fish, 96 hours)

**Bioaccumulative Potential:** Not available.

### Mobility in Soil

**Soil/Water Partition Coefficient ( $K_{oc}$ ):** Not available

**Mobility:** This product is not likely to move rapidly with surface or groundwater flows because of its low water solubility. This product is not likely to volatilize rapidly into the air because of its low vapor pressure.

### Section 13. Disposal Considerations

**Waste Treatment Methods:** Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

### Section 14. Transport Information

Not classified as hazardous for transport (DOT, TDG, IMO/IMDG, IATA/ICAO)

### Section 15. Regulatory Information

**Safety, Health, and Environmental Regulations Specific for the Product:** No known specific national and/or regional regulations applicable to this product (including its ingredients).

### International Regulations

#### International Lists

**Australia Inventory (AICS):** Listed on inventory.

**China Inventory (IECSC):** Listed on inventory.



**Japan Inventory:** In compliance.  
**Korea Inventory:** Listed on inventory.  
**New Zealand Inventory of Chemicals (NZIoC):** Listed on inventory.  
**Philippines Inventory (PICCS):** Listed on inventory.

**Canada Inventory:** Listed on inventory.  
**United States Inventory (TSCA 8b):** Listed on inventory.  
**Europe Inventory:** In compliance

#### United States

**HCS Classification:** Not Regulated

#### US Federal Regulations

**SARA 302/304/311/312 Extremely Hazardous Substances:** No products were found.

**SARA 302/304 Emergency Planning and Notification:** No products were found.

**SARA 302/304/311/312 Hazardous Chemicals:** No products were found.

**SARA 311/312 MSDS Distribution - Chemical Inventory - Hazard Identification:** No products were found.

**Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs):** Not Listed

**Clean Air Act Section 602 Class I Substances:** Not listed

**Clean Air Act Section 602 Class II Substances:** Not listed

**DEA List I Chemicals (Precursor Chemicals):** Not listed

**DEA List II Chemicals (Essential Chemicals):** Not listed

Section 16. Other Information
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**Disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

REVISION DATE: 9/3/2015