

## Material Safety Data Sheet

### Isoamyl Acetate

#### Section 1 - Chemical Product and Company Identification

**MSDS Name:** Isoamyl Acetate

**Catalog Numbers:** IS540

**Synonyms:** Banana oil; Isoamyl ethanoate; Isopentyl acetate; 3-Methylbutyl acetate; Pear oil.

**Company Identification:**

Polarchem Corp.  
7321-A Garden Grove Blvd.  
Garden Grove, CA 92841

**For information, call:** 714-894-2985

**For CHEMTREC assistance, call:** 800-424-9300

#### Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
123-92-2	Isoamyl Acetate	>98	204-662-3

#### Section 3 - Hazards Identification

### EMERGENCY OVERVIEW

Appearance: clear, colorless liquid. Flash Point: 25 deg C.

**Warning! Flammable liquid and vapor.** Causes eye and respiratory tract irritation. Repeated exposure may cause skin dryness or cracking. May cause central nervous system effects.

**Target Organs:** Central nervous system, respiratory system, eyes, skin.

#### Potential Health Effects

**Eye:** Causes eye irritation.

**Skin:** Prolonged and/or repeated contact may cause defatting of the skin and dermatitis. Repeated or prolonged exposure may cause drying and cracking of the skin. Not expected to cause an allergic skin reaction. Human patch testing studies provided no evidence of skin sensitization, phototoxicity, or photoallergy.

**Ingestion:** Causes gastrointestinal irritation with nausea, vomiting and diarrhea.  
**Inhalation:** Causes respiratory tract irritation. Prolonged exposure may result in dizziness and general weakness. Symptoms in humans following inhalation of pentyl acetate vapors (at unreported concentrations) include headache, fatigue, mucous membrane irritation, excessive salivation, tearing, nose and throat irritation, oppression in the chest, and occasional vague nervousness.  
**Chronic:** Prolonged exposure may produce a narcotic effect.

## Section 4 - First Aid Measures

**Eyes:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid.

**Skin:** In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical aid if irritation develops and persists. Wash clothing before reuse.

**Ingestion:** If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid.

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

**Notes to Physician:** Treat symptomatically and supportively.

## Section 5 - Fire Fighting Measures

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors may form an explosive mixture with air. Use water spray to keep fire-exposed containers cool. Containers may explode in the heat of a fire. Flammable liquid and vapor. Vapors are heavier than air and may travel to a source of ignition and flash back. Vapors can spread along the ground and collect in low or confined areas.

**Extinguishing Media:** For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. Water may be ineffective. For large fires, use water spray, fog or alcohol-resistant foam.

**Flash Point:** 25 deg C ( 77.00 deg F)

**Autoignition Temperature:** 360 deg C ( 680.00 deg F)

**Explosion Limits, Lower:** 1%

**Upper:** 7.5%

**NFPA Rating:** (estimated) Health: 1; Flammability: 3; Instability: 0

## Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Absorb spill with inert material (e.g. vermiculite, sand or earth), then

place in suitable container. Clean up spills immediately, observing precautions in the Protective Equipment section. Remove all sources of ignition. Use a spark-proof tool. Provide ventilation.

## Section 7 - Handling and Storage

**Handling:** Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Ground and bond containers when transferring material. Use spark-proof tools and explosion proof equipment. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames. Use only with adequate ventilation. Keep away from heat, sparks and flame. Avoid breathing vapor or mist.

**Storage:** Keep away from heat, sparks, and flame. Store in a cool, dry place. Flammables-area.

## Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

### Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Isoamyl Acetate	50 ppm TWA (listed under 'Pentyl acetate, all isomers'); 100 ppm STEL (listed under Pentyl acetate, all isomers)	100 ppm TWA; 525 mg/m <sup>3</sup> TWA 1000 ppm IDLH	100 ppm TWA; 525 mg/m <sup>3</sup> TWA

**OSHA Vacated PELs:** Isoamyl Acetate: 100 ppm TWA; 525 mg/m<sup>3</sup> TWA

### Personal Protective Equipment

**Eyes:** Wear chemical splash goggles.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

## Section 9 - Physical and Chemical Properties

**Physical State:** Liquid

**Appearance:** clear, colorless

**Odor:** odor of pears - banana-like

**pH:** neutral

**Vapor Pressure:** 4 mm Hg @ 20 deg C

**Vapor Density:** 4.49 (air=1)

**Evaporation Rate:** 5% @ 35°C

**Viscosity:** 1.030 cP @ 9 deg C

**Boiling Point:** 142 deg C @ 756 mm Hg

**Freezing/Melting Point:** -78 deg C

**Decomposition Temperature:** Not available.

**Solubility:** Slightly soluble.

**Specific Gravity/Density:** 0.875 @ 15°C

**Molecular Formula:** C<sub>7</sub>H<sub>14</sub>O<sub>2</sub>

**Molecular Weight:** 130.19

## Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures.

**Conditions to Avoid:** Ignition sources.

**Incompatibilities with Other Materials:** Strong oxidizing agents, strong reducing agents, strong acids, strong bases, nitrates.

**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide.

**Hazardous Polymerization:** Has not been reported.

## Section 11 - Toxicological Information

**RTECS#:**

**CAS#** 123-92-2: NS9800000

**LD50/LC50:**

CAS# 123-92-2:

Oral, rabbit: LD50 = 7422 mg/kg;

Oral, rat: LD50 = 16600 mg/kg;

Skin, rabbit: LD50 = >5 gm/kg; <BR.

**Carcinogenicity:**

CAS# 123-92-2: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

**Epidemiology:** No information available.

**Teratogenicity:** No information available.

**Reproductive Effects:** No information available.

**Mutagenicity:** No information available.

**Neurotoxicity:** No information available.

**Other Studies:**

## Section 12 - Ecological Information

No information available.

## Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**RCRA P-Series:** None listed.

**RCRA U-Series:** None listed.

## Section 14 - Transport Information

	US DOT	Canada TDG
<b>Shipping Name:</b>	AMYL ACETATES	AMYL ACETATES
<b>Hazard Class:</b>	3	3
<b>UN Number:</b>	UN1104	UN1104
<b>Packing Group:</b>	III	III
<b>Additional Info:</b>		FLASHPOINT 25 C

## Section 15 - Regulatory Information

### US FEDERAL

#### TSCA

CAS# 123-92-2 is listed on the TSCA inventory.

#### Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

#### Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

**Section 12b**

None of the chemicals are listed under TSCA Section 12b.

**TSCA Significant New Use Rule**

None of the chemicals in this material have a SNUR under TSCA.

**CERCLA Hazardous Substances and corresponding RQs**

CAS# 123-92-2: 5000 lb final RQ (Listed under 'Amyl Acetate'); 2270 kg final RQ (Listed under 'Amyl Acetate')

**SARA Section 302 Extremely Hazardous Substances**

None of the chemicals in this product have a TPQ.

**SARA Codes**

CAS # 123-92-2: acute, flammable.

**Section 313** No chemicals are reportable under Section 313.

**Clean Air Act:**

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depleters.

This material does not contain any Class 2 Ozone depleters.

**Clean Water Act:**

CAS# 123-92-2 is listed as a Hazardous Substance under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

**OSHA:**

None of the chemicals in this product are considered highly hazardous by OSHA.

**STATE**

CAS# 123-92-2 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

**California Prop 65**

California No Significant Risk Level: None of the chemicals in this product are listed.

**European/International Regulations****European Labeling in Accordance with EC Directives****Hazard Symbols:**

Not available.

**Risk Phrases:**

R 10 Flammable.

R 66 Repeated exposure may cause skin dryness or cracking.

**Safety Phrases:**

S 23 Do not inhale gas/fumes/vapour/spray.

**WGK (Water Danger/Protection)**

CAS# 123-92-2: 1

**Canada - DSL/NDSL**

CAS# 123-92-2 is listed on Canada's DSL List.

**Canada - WHMIS**

This product has a WHMIS classification of B2, D2B.

**Canadian Ingredient Disclosure List**

CAS# 123-92-2 is listed on the Canadian Ingredient Disclosure List.

## Section 16 - Additional Information

**MSDS Creation Date:** 02/10/1998

**Revision #5 Date:** 07/01/2008

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Polarchem Corp. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Polarchem Corp. has been advised of the possibility of such damages.*