

# Safety Data Sheet (SDS)

According to GHS (Global Harmonized System) - Hazcom 2012

Date Printed (YYYY-MM-DD): 2020-09-21

## Section 1 - Product and Company Information

**Product Name:** Polyethylene rod

**Product Part Number(s):** R04-05-08-NT, 5003R4, R4-1, 5004, R04-AA-BB-CC (Where AA is rod profile, BB is package size, CC is

**Recommended Use:** This material is for welding plastic.

**COMPANY IDENTIFICATION:**

Polyvance  
1128 Kirk Rd.  
Rainsville, AL 35986

**Information email:** info@polyvance.com

**EMERGENCY TELEPHONE NUMBER:**

**24 Hour Emergency contact:** Chemtrec: 1-800-424-9300  
Outside US: 703-527-3887

**Customer Information Number:** 256-638-4103 (7AM - 4PM (CST) M-F)

## Section 2 - Hazards Identification

**Appearance:** Resinous rods

**Odor:** None

**Hazard Statement:**

Not a hazardous substance or mixture.

**Signal Word:** Not Applicable

**Signal Word Hazard:** Not Applicable

GHS Physical Hazard Pictogram	GHS Health Hazard Pictogram(s)	GHS Environmental Hazard Pictogram
Not Applicable	Not Applicable	Not Applicable

### GHS Hazards Statement Codes for This Product

Statement Type	Statement Code	Statement Text
----------------	----------------	----------------

**Precautionary Statement:**

Not a hazardous substance or mixture.

### GHS Precautionary Statement Codes for This Product

Statement Type	Statement Code	Statement Text
----------------	----------------	----------------

## Potential Health Effects

**Eye Contact:** The cool solid material is not expected to cause eye irritation. Thermal burns may result from contact with the hot material.

**Skin Contact:** The cool solid material is not expected to cause eye irritation. Thermal burns may result from contact with the hot material.

**Inhalation:** Prolonged or repeated inhalation of vapors or fumes from the heated material may be irritating to the upper respiratory tract.

**Ingestion:** Not expected to be an ingestion problem.

---

## Section 3 - Composition / Information on Ingredients

---

Component	CAS #	ENIECS	REACH Reg. No.	Amount
Polyethylene Homopolymer	9002-88-4			98 - 100%
Proprietary Additives	Mixture			< 2%

---

## Section 4 - First Aid Measures

---

**Eye Contact:** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**Skin Contact:** If the molten material gets on skin, quickly cool with water. Seek immediate medical attention. Do not try to peel the solidified material from the skin or use solvents or thinners to dissolve it.

**Inhalation:** Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. If symptoms persist, call a physician.

**Ingestion:** Do not induce vomiting without medical advice.

---

## Section 5 - Firefighting Measures

---

**Extinguishing Media:** Water. Water mist. Dry chemical. Carbon dioxide (CO<sub>2</sub>). Foam. If possible, water should be applied as a spray from a fogging nozzle since this is a surface burning material. The application of high velocity water will spread the burning surface layer. Avoid the use of straight streams that may create a dust cloud and the risk of a dust explosion. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Special Protective Equipment:** Use personal protective equipment. Wear self-contained breathing apparatus for firefighting if necessary.

**Unusual Fire or Explosion Hazards:** Bulk storage of polyethylene may result in the accumulation of ethylene gas with possible explosion potential. Concentrations of ethylene gas must be kept below the lower explosive limit (LEL) of 2.7%.

**Fire Fighting Procedures:** For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

---

## Section 6 - Accidental Release Measures

---

**Personal Precautions:** Sweep up to prevent slipping hazard. Avoid breathing dust. Avoid dust formation.

**Environmental Precautions:** Do not contaminate surface water. Prevent product from entering drains.

**Methods For Clean Up:** If liquid material is spilled, allow it to cool and solidify. Place material in disposal containers and dispose of in a manner consistent with applicable regulations.

**Methods for Containment:** Contact local environmental or health authorities for approved disposal of this material. If safe and practicable, reclaim material.

---

## Section 7 - Handling and Storage

---

**General Handling Practices:** Keep out of reach of children. For professional use only. Not intended for sale to the general public.

**Storage Requirements:** Store in a cool, dry, well ventilated area.

---

## Section 8 - Precautions to Control Exposure / Personal Protection

---

## Personal Protective Equipment (PPE):

**Eye / Face Protection:** Goggles or safety glasses.

**Skin Protection:** Not normally required.

**Respiratory Protection:** Not normally required. If ventilation cannot be required, wear NIOSH approved respirator.

**Hygienic Measures:** Wash hands before eating, smoking or using the washroom.

**Other Protection Measures:** None

**Engineering Controls:** No special ventilation is usually necessary. However, if operating conditions create high airborne concentrations of gases or fumes, special ventilation may be needed.

**HMIS Personal Protection:** A



---

## Section 9 - Physical and Chemical Properties

---

**Appearance:** Tough, translucent white, leathery, resinous rods approximately 1/8 inch in diameter

**Odor Threshold:** Not determined

**pH:** Not determined

**Melting Point:** 50 - 140 C (122 - 284 F)

**Freezing Point:** Not determined

**Boiling Point:** Not available.

**Boiling Range:** Not available.

**Flash Point:** Not determined

**Evaporation Rate:** Not determined

**Flammability:** Not determined

**Upper Flammability Limit:** Not determined

**Lower Flammability Limit:** Not determined

**Vapor Pressure:** Not determined

**Vapor Density:** N/A

**Specific Gravity:** 0.90 - 0.97

**Solubility in Water:** Not Soluble

**Partition Coefficient:** Not determined

**Autoignition Temperature:** > 360 C (680 F)

**Decomposition Temperature:** Not determined

**Viscosity:** Not determined

---

## Section 10 - Stability and Reactivity

---

**Chemical Stability:** Stable

**Conditions to Avoid:** All plastic materials may generate static electricity and should not be used around explosive mixtures.

**Incompatible Materials:** Reacts violently with F2.

**Hazardous Decomposition Products:** Emits acrid smoke and irritating fumes when heated to decomposition.

---

## Section 11 - Toxicological Information

---

**Ingestion Toxicity:** No adverse health effects were noted on the digestive system of test animals when fed up to 20% polyethylene.

**Skin Absorption:** Presumed Not Toxic

**Inhalation:** Presumed Not Toxic

**Repeated Dose:** Subchronic, 50-90 day, feeding studies conducted on rats, dogs and swine showed no effects from dietary levels of 1-20% powdered and shredded polyethylene.

**Carcinogenicity:** Not listed by IARC, NTP, OSHA or EPA.

**Reproductive:** Not expected to occur.

---

## Section 12 - Ecological Information

---

**EcoToxicity:** Ecotoxicity is expected to be minimal based on the low water solubility of polymers.

**Persistence/Degradability:** This material is not expected to be readily biodegradable.

**Bioaccumulation:** Does not bioaccumulate.

---

## Section 13 - Disposal Considerations

---

**Disposal Method:** Contact local environmental or health authorities for approved disposal of this material. If safe and practicable, reclaim material.

**Container Disposal:** Disposal must be made according to official regulations.

---

## Section 14 - Transport Information

---

### DOT

**Proper Shipping Name:** Not Regulated

**Additional DOT Shipping Information:** Not regulated as a hazardous material or dangerous goods for transportation by this agency.

### IMDG (Maritime transport)

**Additional IMDG Information:** Not regulated as a hazardous material or dangerous goods for transportation by this agency.

## IATA (Air transport)

**Additional IATA Shipping Information:** Not regulated as a hazardous material or dangerous goods for transportation by this agency.

---

## Section 15 - Regulatory Information

---

Superfund Amendments and Reauthorization Act of 1986 (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312

Immediate (Acute) Health Hazard: Not available

Delayed (Chronic) Health Hazard: Not available

Fire Hazard: Not available

Reactive Hazard: Not available

Sudden Release of Pressure: Not available

---

**The following lists hazardous components and the regulatory lists for which they are required to be reported.**

**Component:** Polyethylene Homopolymer

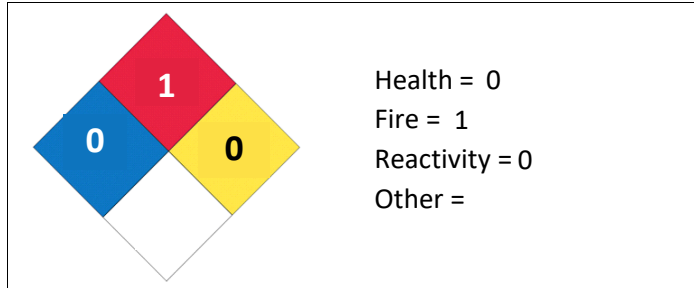
**CAS:** 9002-88-4

**Amount:** 98 - 100%

### HMIS Rating (0 - 4)

<b>HEALTH</b>	<b>1</b>	Health = 1
<b>FIRE</b>	<b>1</b>	Fire = 1
<b>PHYSICAL</b>	<b>0</b>	Physical = 0
<b>PERSONAL PROTECTION</b>	<b>A</b>	Personal Protection = A

### NFPA Ratings



## Section 16 - Other Information

### Legend

ACGIH	American Conference of Governmental Hygenists
CFR	Code of Federal Regulations
DFG	Deutsche Forschungsgemeinschaft
HMIS	Hazardous Materials Identification System
IARC	International Agency for Research on Cancer
MAK	Maximum Allowable Concentration (German)
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety and Health
OEL	Occupational Exposure Limit
RCRA	Resource Conservation and Recovery Act
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
TWA	Time Weighted Average

### DISCLAIMER

This Safety Data Sheet (SDS) is prepared in compliance with GHS Hazcom 2012. The information may be based in part on information provided by component suppliers and is believed to be correct as of the date hereof. However, no warranty or merchantability, fitness for any use, or any other warranty is expressed or is to be implied regarding the accuracy of this data, the results to be obtained from the use of the material, or the hazards connected with such use. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar, and since data made available subsequent to the date hereof may suggest modification of the information, we assume no responsibility for the result of its use. This information and material is furnished on the condition that the person receiving it shall make his/her own determination as the suitability of the material for his/her particular purpose and on the condition that he/she assume the risk of his/her use thereof.