

Safety Data Sheet (SDS)

According to GHS (Global Harmonized System) - Hazcom 2012

Date Printed (YYYY-MM-DD): 2020-04-17

Section 1 - Product and Company Information

Product Name: Polyethylene rod

Product Part Number(s): R04-01-04-RD, 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 (CO₂). 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

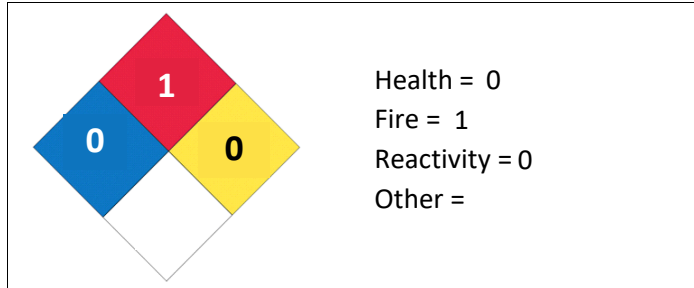
CAS: 9002-88-4

Amount: 98 - 100%

HMIS Rating (0 - 4)

| | | |
|----------------------------|----------|-------------------------|
| HEALTH | 1 | Health = 1 |
| FIRE | 1 | Fire = 1 |
| PHYSICAL | 0 | Physical = 0 |
| PERSONAL PROTECTION | A | 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.