

MATERIAL SAFETY DATA SHEET
TP-95 POWDER

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufacturer's Name: Polymerics, Inc.
2828 Second Street
Cuyahoga Falls, Ohio 44221

Product Name: TP-95 POWDER
MSDS Number: 200825
Chemical Family: Dry Liquid Dispersion (DLD)

Emergency Telephone Numbers: (330) 928-2210

NON-Emergency Telephone Numbers: (330)-928-2210

SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS**Hazardous Components****Specific Chemical Identity:**

Common Name(s)	OSHA PEL mg/m3	ACGIH TLV mg/m3	Other Limits Recom- mended	% Optional Wt.%
Bis (2-(2-Butoxyethoxy)Ethyl) Adipate CAS# 141-17-3 Reportable under SARA Title III, Section 313 as 1% Diethylene Glycol Monobutyl Ether (CAS# 112-34-5)..	5 (Oil Mist)	5 (Oil Mist)	N/A	72%
Precipitated Hydrated Amorphous Silica CAS# 112926-00-8	6	10	5 mg/m3 (BRMA)	28%

"PEL" indicates the OSHA Permissible Exposure Limit.

"TLV" means Threshold Limit Value exposure (eight-hour, time weighted average, unless otherwise noted) established by the American Conference of Governmental Industrial Hygienists (ACGIH).

"BRMA" stands for the British Rubber Manufacturer's Association.

SECTION 3 HAZARDS IDENTIFICATION**Emergency Overview:**

Health Hazards: This product may irritate the eyes, skin, and respiratory tract. May cause harm to the kidneys and liver and may also lead to blood disorders.

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Potential Health Effects

- Eye Contact:** Dust will cause mechanical irritation to the eyes with a slight burning sensation.
- Skin Contact:** Prolonged or repeated skin contact can cause defatting and drying of the skin which may result in a burning sensation and a dried, cracked appearance. Some skin absorption may occur adding to the chemical body burden.
- Inhalation:** Exposure may result in neurological effects such as nausea, dizziness and headaches.
- Ingestion:** Material is considered slightly toxic via ingestion. May cause gastrointestinal irritation, nausea and diarrhea. Overexposure may lead to delayed liver and kidney damage.
- Aggravated Medial Conditions:**
Like any nuisance dust, it may aggravate certain pre-existing upper respiratory conditions like asthma or bronchitis.
- Carcinogenicity:** See Section 2.
- Chronic:** Chronic overexposure may cause respiratory irritation with nasopharyngitis and laryngitis. Long-term exposure to dust regardless of the chemical composition can lead to bronchitis, emphysema, or other nonspecific lung disorders.
- Reproductive Effects:**
None known.
- Note:** This product is specially prepared and in a form that makes airborne particulates unlikely. These health effects only apply if a spill should occur or if inadequate ventilation is used at the process unit.

SECTION 4 FIRST AID MEASURES

- Eye Contact:** Flush eyes with copious amounts of water for 15 minutes while holding eyelids open. If irritation persists, get medical attention.
- Skin Contact:** Wipe off excess material from exposed area. Flush exposed area with water and follow by washing with soap if available. If redness, swelling, pain and/or blisters occur, transport to the nearest medical facility for additional treatment.
- Inhalation:** Move victim to fresh air. Treat any irritation symptomatically. Obtain medical attention if irritation develops or persists.

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Ingestion: DO NOT induce vomiting. Have victim rinse mouth out with water, then drink sips of water to remove taste from mouth. In general, no treatment is necessary unless large quantities are swallowed, however, get medical advice if conditions warrant.

SECTION 5 FIRE FIGHTING MEASURES

Flash Point: N/A

Flammable Limits (Explosive limits in air, volume percent):

LEL: No data UEL: No Data

Extinguishing Media:

Use water spray to cool fire exposed surfaces and to protect personnel. Extinguish the fire by cooling with a water spray. Solid streams of water should not be used because of the possibility of dispersing the burning powders.

Fire Fighting: Clear fire area of all non-emergency personnel. Do not enter confined fire space without full bunker gear including a positive pressure self-contained breathing apparatus. Isolate fuel supply to fire.

Unusual Fire Hazards:

During a fire, irritating and/or toxic gases and aerosols from the decomposition/combustion products may be generated. Under lean Oxygen conditions, carbon monoxide and irritating smoke may be produced. No unusual fire or explosion hazards are associated with this material.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Spill: Always wear recommended personal protective equipment (safety glasses, dust mask, gloves). Dispose of contaminated material. Unbroken bags can still be used.

Disposal: Damaged or unused product would not be considered an RCRA Hazard Waste as defined in 40 CFR 261.3. This product also does not exhibit any of the hazardous characteristics listed in 40 CFR 261, Subpart C. Therefore, it could go to a sanitary landfill with a proper waste profile per local and state environmental regulations.

SECTION 7 STORAGE AND HANDLING

Electrostatic Accumulation Hazard:

Not applicable if used as intended.

Storage Temperature, Deg F:

Ambient.

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Loading/Unloading Temperature, Deg F:
Ambient.

Storage Transport Pressure, mmHg:
Atmospheric.

Loading/Unloading Viscosity, cSt:
Not Applicable.

Storage and Handling:
Avoid excessive heat and keep away from strong oxidizing agents.
Avoid breathing process fumes and dusts.
Use under well-ventilated conditions.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal Protection:
Personal protective equipment selections vary based upon the potential exposure conditions such as handling practices, concentration and ventilation. The following is for the expected use of our product in the original packing.

Eye Protection: Standard safety glasses.

Skin Protection: Use protective clothing wherever skin contact is expected to occur. Latex or cotton gloves would provide sufficient protection at room temperature.

Respiratory Protection:
Depending upon the ventilation of the process equipment, dust masks may be needed to protect against nuisance particulate. However, any required use of respirators will result in compliance to OSHA's Respiratory Protection Standard, 29 CFR 1910.134. Standard protocol calls for using the exposure limits set for nuisance dusts (10 mg/m³) when working with powders that have no other exposure limits.

Ventilation: Local exhaust ventilation is recommended at all process sites with capture velocity of 150 to 200 FPM. Effective ventilation will draw the dusts, fumes and vapors away from the breathing area of the workers in order to prevent routine inhalation.

HMIS # **Health 2* Fire 1 Reactivity 0 Personal Protective Equipment B**
HMIS Ratings involve data interpretations that vary from company to company. In order to handle this material safely, all of the information contained within the MSDS must be considered.

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SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Specific Gravity at Deg F (H₂O = 1):	1.1800
Vapor Density (AIR = 1):	N/A
Solubility in Water, wt.:	Negligible
Viscosity of Liquid:	N/A
Evaporation Rate, n-Bu Acetate=1:	N/A
Percent Solids by Weight:	N/A
Appearance:	Yellowish Bulk Powder
Odor:	Slight

SECTION 10 STABILITY AND REACTIVITY

Stability: Stable.

Conditions to Avoid:

Avoid temperature extremes, open flame and sparks.

Hazardous Polymerization:

Will not occur.

Materials and Conditions to Avoid Incompatibility:

Strong oxidizing agents like hydrogen peroxide or perchlorates.

Hazardous Decomposition Products:

Oxides of carbon.

SECTION 11 TOXICOLOGICAL INFORMATION

Please refer to Section 3 for available information on health effects.

SECTION 12 ECOLOGICAL INFORMATION

No specific ecological data are available for this product. Please refer to Section 6 for information regarding accidental releases and Section 15 for regulatory reporting information.

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose in accordance with applicable federal, state and local government regulations. Waste generators must determine whether a discarded material is classified as a hazardous waste. U.S. EPA guidelines for the classification determination are listed in 40 CFR 261.3. Product as purchased is not considered as a RCRA Hazardous Waste.

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SECTION 14 TRANSPORT INFORMATION**Department of Transportation (DOT):**

This product is not regulated by the U.S. Department Of Transportation.

Freight Code: 43940 Chemical NOI

Class: 70

SECTION 15 REGULATORY INFORMATION

TSCA: All the components of this product are listed on the TSCA Inventory of Chemical Substances.

CERCLA: If this product is accidentally spilled, it is not subject to any special reporting under the requirements of the Comprehensive Environmental Response, Compensation and Liability Act.

SARA Title III: Under the provisions of Title III, Sections 311/312 of the Superfund Amendments and Reauthorization Act, this product is classified into the following hazard categories:

Hazards: Acute / Chronic

Section 313: See Section 2 of MSDS.

SECTION 16 OTHER INFORMATION**Revision Summary:**

This is the original MSDS.

This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the users responsibility to satisfy himself as to the suitability and liability for any loss or damage that may occur from the use of this information, nor do we offer warranty against patent infringement.

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