

POLYESTER RESIN**1. Product and Company Identification**

Material name POLYESTER RESIN
MSDS # SAL03
Revision date 25-Jun-2008
Company information Performance Fibers Operations, Inc
Salisbury Plant
7401 Salisbury Blvd
Salisbury, NC 28147

Emergency Salisbury Plant Guardhouse: 1-704-636-6000 ext 4349

2. Composition/Information on Ingredients

Components	CAS#	Concentration
POLYETHYLENE TEREPHTHALATE	25038-59-9	99 - 99.9%
TITANIUM DIOXIDE	13463-67-7	<1%

Composition comments

None.

3. Hazards Identification**Emergency overview**

Low hazard exists for usual industrial or commercial handling. When the resin products are manipulated via various handling methods, some dust may be produced.

General hazard information

This resin may have been produced using additives. If this resin contains any of these materials in an amount that may present a hazard, or requires additional precautions during normal handling and use, additional information has been included in the appropriate section in this MSDS.

OSHA regulatory status

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CR 1910.1200), this MSDS contains valuable information for the safe handling and proper use of the product.

Potential health effects**Eyes**

Resin particles and dusts may be mechanically irritating when in contact with eyes. Symptoms include itching, burning, redness and tearing.

Skin

Not expected to be a primary skin irritant. Resin particles and dusts may be mechanically irritating to skin. While irritation is not expected under normal use, prolonged exposure and continuous rubbing of resin particles on skin may produce skin irritation. Symptoms of mechanical irritation may include redness and/or itching.

Inhalation

Not a likely route of entry under normal use. Dusts produced during manipulation of resin may be irritating if inhaled.

Ingestion

Not a likely route of entry under normal use. Ingestion of large amounts of resin may cause gastrointestinal blockage which can cause stomach distress.

POLYESTER RESIN

4. First Aid Measures

First aid procedures

Eye contact

Flush eye with water as a precaution. If irritation persists get medical attention.

Skin contact

Product is not expected to be hazardous by skin contact. Should irritation occur, rinse with water.

Inhalation

No specific treatment is necessary since this material is not likely to be hazardous by inhalation. If exposed to excessive levels of dusts or fumes, remove to fresh air and get medical attention, if cough or other symptoms develop.

Ingestion

If swallowed, do NOT induce vomiting. Never give anything by mouth to a victim who is unconscious or is having convulsions. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Consult a physician if necessary.

5. Fire Fighting Measures

Flammable properties

May burn, but does not ignite readily.

Extinguishing media

Suitable extinguishing media

Use dry chemical, CO₂, water spray or regular foam.

Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

Protection of firefighters

Protective equipment and precautions for firefighters

Firefighters should wear full protective clothing including a self contained breathing apparatus.

Hazardous combustion products

Irritating and toxic gases or fumes may be released during a fire. Included are carbon monoxide, carbon dioxide, various hydrocarbon fragments, as well as, thick smoke.

Flammability

Not determined

6. Accidental Release Measures

Methods for cleaning up

Sweep up or gather material and place in appropriate container.

7. Handling and Storage

Handling

Use care in handling/storage.

Storage

Keep away from heat, sparks, and flame.

POLYESTER RESIN

Further information

When resin products are manipulated in various handling methods, some dust may be produced. Use good housekeeping methods to keep accumulation of dust to a minimum.

8. Exposure Controls/Personal Protection

Exposure guidelines

Use local exhaust ventilation to keep formation of airborne dusts to a minimum when the resin products are handled.

Engineering controls

Use local exhaust ventilation to keep formation of airborne dusts to a minimum when the resin products are handled.

Personal protective equipment

Eye / face protection

When the resin products are manipulated in various handling methods, it may be necessary to wear safety glasses with side shields.

Skin protection

No special protective clothing is needed for normal use and handling. When material is heated, wear gloves to protect against thermal burns.

Respiratory protection

When dust or thermal processing fumes are generated and ventilation is not sufficient to effectively remove them, appropriate respiratory protection may be needed.

General hygiene considerations

Use good industrial hygiene practices in handling this material. Wash hands before breaks and at the end of workday.

9. Physical & Chemical Properties

Form/Appearance	Material is a Polyester Resin
Color	Based on specification.
Odor	None.
Flammability	Not Determined
Melting point	482-572 °F(250-300 °C)
Odor threshold	Not Determined
Solubility (H2O)	Insoluble
VOC (Weight %)	Not applicable

10. Chemical Stability & Reactivity Information

Chemical stability

Stable, however, may decompose if heated. Molten polymer or prolonged air drying of polymer at temperatures above 195 °C will release small quantities of acetaldehyde (CAS# 75-07-0)

NIOSH – Pocket Guide-IDLHs(Immediately Dangerous to Life or Health)

Acetaldehyde	75-07-0	2000 ppm IDLH
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U.S. - OSHA-Final PELs-Time Weighted Averages (TWAs)

Acetaldehyde	75-07-0	200 ppm TWA;360 mg/m3 TWA
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U.S. – OSHA-Vacated PELs-TWAs

Acetaldehyde	75-07-0	100 ppm TWA; 180 mg/m3 TWA
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ACGIH-Threshold Limits Values – Ceilings (TLV-C)

Acetaldehyde	75-07-0	25 ppm Ceiling
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POLYESTER RESIN

ACGIH – Threshold Limits Values – TLV Basis – Critical Effects

Acetaldehyde

75-07-0

eye and upper respiratory tract irritation

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

This product may react with strong oxidizing agents.

11. Toxicological Information**Toxicological information**

Due to this material's high molecular weight, and results of toxicity studies of similar products, this material is considered to be of little to no toxicological concern.

Skin contact

Similar products produced no irritation or sensitization in skin tests on human subjects.

12. Ecological Information**Ecotoxicity**

This product is not expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems. Based on similar substances, this material is expected to be essentially non-biodegradable.

Environmental effects

Based on the physical properties of this product, significant environmental persistence and bioaccumulation would not be expected.

13. Disposal Considerations**Disposal instructions**

Any unused product, if discarded, is not considered a RCRA hazardous waste. Dispose of as a nonhazardous waste in accordance with local, state and federal regulations.

The information offered here is for the product as shipped. Use of and / or alterations to the product, such as mixing with other materials, may significantly change the characteristics of the material and alter the RCRA classification and the proper disposal method.

14. Transport Information**Department of Transportation (DOT) Requirements**

Not regulated.

General

Not regulated as dangerous goods.

15. Regulatory Information**United States Regulations****Federal Regulations**

Product as supplied, is an article under TSCA.

Superfund Amendments and Reauthorization Act of 1986 (SARA)**Hazard categories**

Immediate Hazard – No
Delayed Hazard – No
Fire Hazard – No
Pressure Hazard – No
Reactivity Hazard – No

POLYESTER RESIN

**Section 302 extremely
Hazardous substance** No

International Regulations

As an article the product does not need to be labeled in accordance with ED-directives or respective national laws.

16. Other Information**HMIS ratings**

Health: 0
Flammability: 1
Physical hazard: 0

NFPA ratings

Health: 0
Flammability: 1
Instability: 0

Disclaimer:

The information in this Material Safety Data Sheet relates only to the specific material designated and may not apply where such material is used in combination with any other material or in any process. This information is to the best of our knowledge based on accurate and reliable information, but may be subject to revision as new information becomes available. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. Each user is responsible for satisfying itself as to the suitability of such information for its own particular use; therefore additional safety precautions may be required.