

# POLYPHOBE™ TR-116

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Company

Coatex Inc.  
547 Ecology Ln  
Chester, SC 29706

Coatex Inc.

**Customer Service Telephone Number:** 803-377-6200  
(Monday through Friday, 8:00 AM to 5:00 PM EST)

### Emergency Information

**Transportation:** CHEMTREC: (800) 424-9300  
(24 hrs., 7 days a week)  
**Medical:** Rocky Mountain Poison Center: (866) 767-5089  
(24 hrs., 7 days a week)

### Product Information

**Product name:** POLYPHOBE™ TR-116  
**Synonyms:** Not available  
**Molecular formula:** Complex mixture  
**Chemical family:** Acrylic copolymer in aqueous dispersion  
**Product use:** Thickening agent

## SECTION 2: HAZARDS IDENTIFICATION

### Emergency Overview

**Color:** White, to, blue  
**Physical state:** liquid  
**Odor:** slightly acrylic

**\*Classification of the substance or mixture:**  
Not a hazardous substance or mixture.

### GHS-Labeling

Not a hazardous substance or mixture.

### Supplemental information:

**Potential Health Effects:**

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The product, in the form supplied, is not anticipated to produce significant adverse human health effects.  
Contains high molecular weight polymer(s).

**Other:**

Handle in accordance with good industrial hygiene and safety practice.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical name	CAS-No.	Wt/Wt	GHS Classification**
Water	7732-18-5	>= 60 - < 80 %	Not classified
Acrylic Copolymer	Proprietary*	>= 30 - < 50 %	Not classified
Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt	577-11-7	< 2 %	H315, H318

\*The specific chemical identity is withheld because it is trade secret information of Coatex Inc.

\*\*For the full text of the H-Statements mentioned in this Section, see Section 16.

**SECTION 4: FIRST AID MEASURES****4.1. Description of necessary first-aid measures:****Inhalation:**

If inhaled, remove victim to fresh air.

**Skin:**

In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse.

**Eyes:**

Immediately flush eye(s) with plenty of water.

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**Ingestion:**

If swallowed, DO NOT induce vomiting. Get medical attention. Never give anything by mouth to an unconscious person.

**4.2. Most important symptoms/effects, acute and delayed:**

For most important symptoms and effects (acute and delayed), see Section 2 (Hazard Statements and Supplemental Information if applicable) and Section 11 (Toxicology Information) of this SDS.

**4.3. Indication of any immediate medical attention and special treatment needed:**

Unless otherwise noted in Notes to Physician, no specific treatment noted; treat symptomatically.

**SECTION 5: FIREFIGHTING MEASURES****Extinguishing media (suitable):**

Water spray, Carbon dioxide (CO<sub>2</sub>), Foam, Dry chemical

**Protective equipment:**

Fire fighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear (full Bunker Gear) and self-contained breathing apparatus (pressure demand / NIOSH approved or equivalent).

**Further firefighting advice:**

Fire fighting equipment should be thoroughly decontaminated after use.

**Fire and explosion hazards:**

When burned, the following hazardous products of combustion can occur:

Carbon oxides

Sulphur oxides

Nitrogen oxides

Hazardous organic compounds

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, Emergency procedures, Methods and materials for containment/clean-up:**

Prevent further leakage or spillage if you can do so without risk. Ventilate the area. Avoid generation of vapors. Contain and collect spillage with non-combustible absorbent material such as clean sand, earth, diatomaceous earth or non-acidic clay and place into suitable properly labeled containers for prompt disposal. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.

**Protective equipment:**

Appropriate personal protective equipment is set forth in Section 8.

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**SECTION 7: HANDLING AND STORAGE****Handling****General information on handling:**

Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and removal of material from eyes, skin, and clothing.

**Storage****General information on storage conditions:**

This material is not hazardous under normal storage conditions; however, material should be stored in closed containers, in a secure area to prevent container damage and subsequent spillage. Protect from sunlight.

**Storage stability – Remarks:**

Materials recommended for packaging include: Plastic materials Polyethylene Stainless steel

Do not use: Metals

**Storage incompatibility – General:**

Store separate from:

Metals

Strong bases

**Temperature tolerance – Do not store below:**

41 °F (5 °C)

**Temperature tolerance – Do not store above:**

104 °F (40 °C)

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****Airborne Exposure Guidelines:****Engineering controls:**

Investigate engineering techniques to reduce exposures below airborne exposure limits or to otherwise reduce exposures. Provide ventilation if necessary to minimize exposures or to control exposure levels to below airborne exposure limits (if applicable see above). If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment.

**Respiratory protection:**

Where airborne exposure is likely or airborne exposure limits are exceeded (if applicable, see above), use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Consult respirator manufacturer to determine appropriate type equipment for a given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may

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be a potential for significant exposure or where exposure limit may be significantly exceeded, use an approved full face positive-pressure, self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply. Respiratory protection programs must comply with 29 CFR § 1910.134.

**Skin protection:**

Minimize skin contamination by following good industrial hygiene practice. Wearing protective gloves is recommended. Wash hands and contaminated skin thoroughly after handling.

**Eye protection:**

Use good industrial practice to avoid eye contact.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>Color:</b>	White, to, blue
<b>Physical state:</b>	liquid
<b>Odor:</b>	slightly acrylic
<b>Odor threshold:</b>	No data available
<b>Flash point</b>	> 212 °F (100 °C) Estimated.
<b>Auto-ignition temperature:</b>	No data available.
<b>Lower flammable limit (LFL):</b>	No data available.
<b>Upper flammable limit (UFL):</b>	No data available.
<b>pH:</b>	3.5
<b>Density:</b>	1.08 g/cm3
<b>Specific Gravity (Relative density):</b>	1.08 Water=1 (liquid)
<b>Vapor pressure:</b>	18 mmHg (68 °F (20 °C))(water)
<b>Boiling point/boiling range:</b>	212 °F (100 °C) (water)
<b>Melting point/range:</b>	No data available.
<b>Freezing point:</b>	No data available.
<b>Evaporation rate:</b>	No data available.
<b>Solubility in water:</b>	Soluble at pH > 7

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<b>Viscosity, dynamic:</b>	No data available.
<b>Oil/water partition coefficient:</b>	log Pow: estimated < 3
<b>Thermal decomposition:</b>	No data available.
<b>Flammability:</b>	See GHS Classification in Section 2 if applicable

**SECTION 10: STABILITY AND REACTIVITY****Stability:**

The product is stable at normal handling and storage temperatures.

**Hazardous reactions:**

Hazardous polymerization does not occur.

Contact with certain metals may cause corrosion and release of hydrogen.

**Materials to avoid:**

Metals

Strong bases

**Conditions / hazards to avoid:**

See HANDLING AND STORAGE section of this MSDS for specified conditions. See Hazardous Decomposition Products below.

**Hazardous decomposition products:**

Thermal decomposition giving flammable and toxic products :

Acrylates

Carbon oxides

Sulphur oxides

Nitrogen oxides

Hazardous organic compounds

**SECTION 11: TOXICOLOGICAL INFORMATION**

Data on this material and/or its components are summarized below.

**Data for POLYPHOBE™ TR-116****Acute toxicity****Oral:**

Practically nontoxic. Acute toxicity estimate > 5,000 mg/kg.

**Eye Irritation:**

Causes mild eye irritation. (rabbit)

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**Data for Acrylic Copolymer (Proprietary)****Other information**

The information presented is from representative materials in this chemical class. The results may vary depending on the test substance.

Effects due to processing releases or residual monomer:

Possible cross sensitization with other acrylates and methacrylates.

**Data for Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt (577-11-7)****Acute toxicity****Oral:**

May be harmful if swallowed. (rat) LD50 = 3,080 mg/kg.

**Dermal:**

No deaths occurred. (rabbit) LD0 = 10,000 mg/kg.

**Skin Irritation:**

Causes skin irritation. (rabbit) (4 h) (70 %) (occluded exposure)

**Eye Irritation:**

Causes serious eye damage. (rabbit) (70 %)

**Repeated dose toxicity**

Subchronic dietary administration to rat / No adverse effects reported.

**Genotoxicity****Assessment in Vitro:**

No genetic changes were observed in a laboratory test using: bacteria

An equivocal response has been reported in a test using: animal cells

**Genotoxicity****Assessment in Vivo:**

No genetic changes were observed in a laboratory test using: rats

**Developmental toxicity**

Exposure during pregnancy. Dietary (rat) / Birth defects were observed. (skeletal malformations, at doses that produce effects in mothers)

**Reproductive effects**

Multiple generation reproduction test. Dietary (rat) / No toxicity to reproduction.

**Human experience****Skin contact:**

Skin: Irritant but not a sensitizer. (studied using human volunteers)

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**Human experience****Ingestion:**

No birth defects were observed. (medicinal use)

**SECTION 12: ECOLOGICAL INFORMATION****Chemical Fate and Pathway**

Data on this material and/or its components are summarized below.

**Data for POLYPHOBE™ TR-116****Octanol Water Partition Coefficient:**

log Pow: estimated < 3

**Data for Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt (577-11-7)****Biodegradation:**

Readily biodegradable. (28 d) biodegradation 91.2 %

**Octanol Water Partition Coefficient:**

log Pow: = 1.998(Method: calculated)

**Ecotoxicology**

Data on this material and/or its components are summarized below.

**Data for Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt (577-11-7)****Aquatic toxicity data:**

Harmful. Danio rerio (zebra fish) 96 h LC50 = 49 mg/l

**Aquatic invertebrates:**

Toxic. Daphnia magna (Water flea) 48 h EC50 = 6.6 mg/l

**Algae:**

Harmful. Desmodesmus subspicatus (green algae) 72 h ErC50 = 82.5 mg/l

**Microorganisms:**

Respiration inhibition / Pseudomonas putida 16 h EC50 = 164 mg/l

**Chronic toxicity to aquatic invertebrates:**

Practically nontoxic. Reproduction Test / Daphnia magna (Water flea) 21 d EC10 = 9 mg/l

**Chronic toxicity to aquatic plants:**

Practically nontoxic. Growth inhibition / Desmodesmus subspicatus (green algae) 72 h ErC10 = 22 mg/l

**SECTION 13: DISPOSAL CONSIDERATIONS****Waste disposal:**

Where possible recycling is preferred to disposal or incineration. If recycling is not an option, incinerate or dispose of in accordance with federal, state, and local regulations. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and



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other requirements listed in pertinent environmental permits. Note: Chemical additions to, processing of, or otherwise altering this material may make this waste management information incomplete, inaccurate, or otherwise inappropriate. Furthermore, state and local waste disposal requirements may be more restrictive or otherwise different from federal laws and regulations.

**SECTION 14: TRANSPORT INFORMATION**

**US Department of Transportation (DOT):** not regulated

**International Maritime Dangerous Goods Code (IMDG):** not regulated

**SECTION 15: REGULATORY INFORMATION****Chemical Inventory Status**

US. Toxic Substances Control Act	TSCA	The components of this product are all on the Active TSCA Inventory.
Canadian Domestic Substances List (DSL)	DSL	All components of this product are on the Canadian DSL
China. Inventory of Existing Chemical Substances in China (IECSC)	IECSC (CN)	All components of this product are listed or exempted
Japan. ENCS - Existing and New Chemical Substances Inventory	ENCS (JP)	Not all components of this product are listed or exempted
Japan. ISHL - Inventory of Chemical Substances	ISHL (JP)	Not all components of this product are listed or exempted
Korea. Korean Existing Chemicals Inventory (KECI)	KECI (KR)	All components of this product are listed or exempted
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	PICCS (PH)	Not all components of this product are listed or exempted
Australian Inventory of Industrial Chemicals	AU AIICL	All components of this product are listed or exempted
Taiwan Chemical Substance Inventory (TCSI)	TCSI	All components of this product are listed or exempted

**United States – Federal Regulations****SARA Title III – Section 302 Extremely Hazardous Chemicals:**

The components in this product are either not SARA Section 302 regulated or regulated but present in negligible concentrations.

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### SARA Title III - Section 311/312 Hazard Categories:

No SARA Hazards

### SARA Title III – Section 313 Toxic Chemicals:

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) - Reportable Quantity (RQ):

The components in this product are either not CERCLA regulated, regulated but present in negligible concentrations, or regulated with no assigned reportable quantity.

### United States – State Regulations

#### California Prop. 65

WARNING! This product contains a chemical known to the State of California to cause cancer.

#### Chemical name

2-Propenoic acid, ethyl ester

#### CAS-No.

140-88-5

## SECTION 16: OTHER INFORMATION

### Full text of H-Statements referred to under sections 2 and 3.

H315 Causes skin irritation.

H318 Causes serious eye damage.

#### Latest Revision(s):

Reference number: 200023549

Date of Revision: 05/10/2023

Date Printed: 05/10/2023

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Version 2.0

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The Company adheres to a strict policy that applies to the use of any of its products in medical device applications. This policy can be found at <https://www.arkema.com/global/en/social-responsibility/innovation-and-sustainable-solutions/responsible-product-management/medical-device-policy/> which is incorporated herein by reference and made a part hereof. Except as expressly authorized, the Company (i) has designated specific medical grade compositions for products used in medical device applications and Company products not so designated are not authorized for use in medical device applications and (ii) strictly prohibits the use of any of its products in medical device applications that are implanted in the body or in contact with bodily fluids or tissues for greater than 30 days. The Company does not design, manufacture and/or directly sell any medical devices. The Company does not co-design, or offer assistance to any purchaser of its products, in their design, manufacture and/or sale of products for medical devices. It is the sole responsibility of the manufacturer of medical devices to determine the suitability of all raw material, products and components, including any medical grade products, in order to ensure that the medical device is safe for end-use and complies with all applicable legal and regulatory requirements and to conduct all necessary tests and inspections.

