

1. PRODUCT AND COMPANY IDENTIFICATION

Product name PolySpec 765 Flex FR - Resin/Side A
Version # 1.0
Revision date 09-Mar-2010
Company information PolySpec
 6614 Gant Road
 Houston, TX 77066 US
Emergency Chemtrec (800) 424-9300
 International (703) 527-3887

2. COMPOSITION / INFORMATION ON INGREDIENTS

Component(s)	CAS #	Percent
Bisphenol-A-(Epichlorohydrin) polymer	25068-38-6	< 80
Triphenyl phosphate	115-86-6	< 5
Non-hazardous and other components below reportable levels		> 20
Composition comments	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	

3. HAZARDS IDENTIFICATION

Emergency overview Irritating to eyes. May cause sensitization by skin contact. Irritating to skin.
Potential short term health effects
Eyes Causes eye irritation.
Skin Blood disorder may occur after prolonged skin contact. Irritating to skin. May cause sensitization by skin contact.
Inhalation Blood disorder may occur after prolonged inhalation. May cause irritation of respiratory tract.
Ingestion Blood disorder may occur after ingestion. Do not ingest.
Target organs Blood.

4. FIRST AID MEASURES

First aid
Eye contact Immediately flush eyes with plenty of water for at least 20 minutes.
Skin contact Remove and isolate contaminated clothing and shoes. If skin irritation persists, call a physician. Wash off immediately with plenty of water. Immediately flush skin with running water for at least 20 minutes.
Inhalation Call a physician if symptoms develop or persist. If breathing is difficult, give oxygen.
Ingestion Drink plenty of water. Do not induce vomiting without medical advice.
Notes to physician Symptoms may be delayed.
General advice Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Take off contaminated clothing and shoes immediately. If you feel unwell, seek medical advice (show the label where possible).

5. FIRE FIGHTING MEASURES

Suitable extinguishing media Small Fires: Dry chemical, CO2, water spray or regular foam.
 Large Fires: Water spray, fog or regular foam.
Fire fighting equipment/instructions Move containers from fire area if you can do it without risk. Do not scatter spilled material with high pressure water streams. Withdraw immediately in case of rising sound from venting safety devices or any discoloration of tanks due to fire. ALWAYS stay away from tanks engulfed in flame. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions.
Flash point 212 °F (100 °C) Pensky-Martens Closed Cup

6. ACCIDENTAL RELEASE MEASURES

Evacuation procedures	Stay upwind. Keep out of low areas. Keep unnecessary personnel away.
Containment procedures	Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Prevent entry into waterways, sewers, basements or confined areas. This material is a water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.
Personal precautions	Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.
Methods for cleaning up	Avoid dust formation. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Dike far ahead of liquid spill for later disposal. Never return spills in original containers for re-use.

7. HANDLING AND STORAGE

Handling	Wear personal protective equipment. Avoid contact with eyes. Do not get this material in contact with skin or eyes. Do not handle or store near an open flame, heat or other sources of ignition. Surfaces may become slippery after spillage.
Storage	Keep in a cool, well-ventilated place. This material can accumulate static charge which may cause spark and become an ignition source. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Do not freeze.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits

ACGIH - Threshold Limits Values - Time Weighted Averages (TLV-TWA)

Triphenyl phosphate	115-86-6	3 Mg/m3 TWA
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ACGIH - Threshold Limits Values - TLV Basis - Critical Effects

Triphenyl phosphate	115-86-6	irritation; dermatitis
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OSHA - Final PELs - Time Weighted Averages (TWAs)

Triphenyl phosphate	115-86-6	3 Mg/m3 TWA
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Personal protective equipment

Respiratory protection In case of insufficient ventilation wear suitable respiratory equipment. No personal respiratory protective equipment normally required.

Hand protection Protective gloves.

Eye protection Wear chemical goggles. Wear face-shield and protective suit for abnormal processing problems.

Skin and body protection Wear appropriate chemical resistant clothing. Wear appropriate chemical resistant gloves. Wear suitable protective clothing.

General Avoid contact with the skin and the eyes.

Engineering measures to reduce exposure Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

Hygiene measures Avoid contact with the skin and the eyes. Handle in accordance with good industrial hygiene and safety practice. When using do not smoke.

9. PHYSICAL & CHEMICAL PROPERTIES

Density	9.8251 lb/gal
Form	Liquid.
Specific gravity	1.179

10. CHEMICAL STABILITY & REACTIVITY INFORMATION

Stability	Stable at normal conditions.
Conditions to avoid	Direct sources of heat.
Incompatibility	None known.

11. TOXICOLOGICAL INFORMATION

Local effects	Blood disorder may occur after ingestion. Irritating to eyes. Irritating to skin. May cause sensitization by skin contact.
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Component analysis - LD50

NIOSH - Selected LD50s and LC50s

Bisphenol-A-(Epichlorohydrin) polymer	25068-38-6	Oral LD50 Rat: 11400 mg/kg; Oral LD50 Mouse: 15600 mg/kg
Triphenyl phosphate	115-86-6	Oral LD50 Rat: 3500 mg/kg; Oral LD50 Mouse: 1320 mg/kg; Dermal LD50 Rabbit: >7900 mg/kg

Sensitization May cause sensitization by skin contact.

Carcinogenicity

ACGIH - Threshold Limits Values - Carcinogens

Triphenyl phosphate	115-86-6	A4 - Not Classifiable as a Human Carcinogen
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Chronic toxicity Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood.

Subchronic toxicity Blood disorder may occur after ingestion. Blood disorder may occur after prolonged inhalation. Blood disorder may occur after prolonged skin contact.

Routes of exposure Skin contact.

12. ECOLOGICAL INFORMATION

Ecotoxicity Components of this product have been identified as having potential environmental concerns.

Environmental effects

Ecotoxicity - Freshwater Algae Data

Triphenyl phosphate	115-86-6	96 Hr EC50 freshwater algae: 2.0 mg/L
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Ecotoxicity - Freshwater Fish Species Data

Triphenyl phosphate	115-86-6	96 Hr LC50 rainbow trout: 0.3 mg/L; 96 Hr LC50 fathead minnow: 0.87 mg/L (flow-through); 96 Hr LC50 bluegill: 290.0 mg/L (Static)
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Ecotoxicity - Water Flea Data

Triphenyl phosphate	115-86-6	48 Hr EC50 water flea: 1.0 mg/L
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13. DISPOSAL CONSIDERATIONS

Disposal instructions This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose in accordance with all applicable regulations.

14. TRANSPORTATION INFORMATION

Department of Transportation (DOT) Requirements

Not regulated as dangerous goods.

International Air Transport Association (IATA) Requirements

Not regulated as dangerous goods.

International Maritime Dangerous Goods (IMDG) Code Requirements

Not regulated as dangerous goods.

General DOT Regulated Severe Marine Pollutant.

15. REGULATORY INFORMATION

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
CERCLA/SARA Hazardous Substances - Not applicable.

Inventory - European Union - European Inventory of Existing Commercial Chemical Substances (EINECS)

Triphenyl phosphate	115-86-6	204-112-2
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Inventory - United States - Section 8(b) Inventory (TSCA)

Bisphenol-A-(Epichlorohydrin) polymer	25068-38-6	XU
Triphenyl phosphate	115-86-6	T

Occupational safety and health administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

CERCLA (superfund) reportable quantity

None

Superfund amendments and reauthorization act of 1986 (SARA)

Section 302 extremely hazardous substance No

Section 311 hazardous chemical Yes

Hazard categories Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

NFPA ratings Health: 2
Flammability: 1
Instability: 0

International regulations

Canada - WHMIS - Ingredient Disclosure List

Triphenyl phosphate 115-86-6 1 % (English Item 1653, French Item 1399)

State regulations

Massachusetts - Right To Know List

Triphenyl phosphate 115-86-6 Present

New Jersey - Right to Know Hazardous Substance List

Triphenyl phosphate 115-86-6 sn 1951

Pennsylvania - RTK (Right to Know) List

Triphenyl phosphate 115-86-6 Present

16. OTHER INFORMATION

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.

Issue date

09-Mar-2010

MSDS sections updated

Regulatory Information: US Federal Regulations