

1. PRODUCT AND COMPANY IDENTIFICATION

Product name	PolySpec 196SL Fluoroelastomer Joint Sealant - Resin/Side A
Version #	2.0
Revision date	16-Jul-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
Methyl Ethyl Keton	78-93-3	< 60
Carbon black	1333-86-4	< 10
Magnesium oxide fume	1309-48-4	< 10
Non-hazardous and other components below reportable levels		> 20

3. HAZARDS IDENTIFICATION

Emergency overview Highly flammable. In use, may form flammable/explosive vapor-air mixture. Harmful in contact with eyes.

Danger of serious damage to health by prolonged exposure. May cause cancer. May cause breathing disorders and lung damage. Will be easily ignited by heat, spark or flames. May cause brain and central nervous system damage.

Potential short term health effects

Eyes	Contact may irritate or burn eyes. Eye contact may result in corneal injury.
Skin	Components of the product may be absorbed into the body through the skin.
Inhalation	May cause breathing disorders and lung damage.
Ingestion	Do not ingest.
Target organs	Central nervous system. Eyes. Respiratory system. Skin.
Main symptoms	Chronic exposure to neurotoxins damages the brain and the central nervous system.

4. FIRST AID MEASURES

First aid

Eye contact	Immediately flush eyes with plenty of water for at least 20 minutes. Get medical attention immediately. Get medical attention if irritation develops or persists.
Skin contact	Get medical attention immediately. Remove and isolate contaminated clothing and shoes. Immediately flush skin with running water for at least 20 minutes. For minor skin contact, avoid spreading material on unaffected skin. Wash off immediately with plenty of water. If skin irritation persists, call a physician.
Inhalation	Get medical attention immediately. Move to fresh air. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, give oxygen. Get medical attention, if needed.
Ingestion	If material is ingested, immediately contact a physician or poison control center. Do not induce vomiting without medical advice. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Do not use mouth-to-mouth method if victim ingested the substance.
Notes to physician	Symptoms may be delayed.
General advice	Keep victim warm. Keep victim under observation. In case of shortness of breath, give oxygen. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. FIRE FIGHTING MEASURES

Unusual fire & explosion hazards	Vapors form flammable or explosive mixtures with air at room temperature. Vapor or gas may spread to distant ignition sources and flash back. Runoff to sewer may cause fire or explosion hazard. Containers may explode when heated.
Hazardous combustion products	Irritating and toxic gases or fumes may be released during a fire. Fire may produce irritating, corrosive and/or toxic gases.
Suitable extinguishing media	Carbon dioxide (CO ₂). Water Fog. Alcohol foam. Dry chemical. Foam.
Fire fighting equipment/instructions	Move containers from fire area if you can do it without risk. In the event of fire, wear self contained breathing apparatus. 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. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. ALWAYS stay away from tanks engulfed in flame. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn. Withdraw immediately in case of rising sound from venting safety devices or any discoloration of tanks due to fire. Cool containers with flooding quantities of water until well after fire is out.
Specific methods	In the event of fire, cool tanks with water spray. Water mist may be used to cool closed containers.
Flash point	19.4 °F (-7 °C)

6. ACCIDENTAL RELEASE MEASURES

Evacuation procedures	Keep unnecessary personnel away. Ventilate closed spaces before entering. Stay upwind. Keep out of low areas.
Containment procedures	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). 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.
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	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. Large Spills: Wet down with water and dike for later disposal. After removal flush contaminated area thoroughly with water.

7. HANDLING AND STORAGE

Handling	Do not handle or store near an open flame, heat or other sources of ignition. Vapors may form explosive mixtures with air. Heat only in areas with appropriate exhaust ventilation. Do not breathe gas/fumes/vapor/spray. All equipment used when handling the product must be grounded. Wear personal protective equipment. Surfaces may become slippery after spillage.
Storage	Keep away from heat and sources of ignition. 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. The pressure in sealed containers can increase under the influence of heat. Keep container tightly closed. Keep out of the reach of children. Do not freeze.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits

ACGIH - Threshold Limits Values - Short Term Exposure Limits (TLV-STEL)		
Methyl Ethyl Keton	78-93-3	300 Ppm STEL
ACGIH - Threshold Limits Values - Time Weighted Averages (TLV-TWA)		
Carbon black	1333-86-4	3.5 Mg/m ³ TWA
Magnesium oxide fume	1309-48-4	10 Mg/m ³ TWA (inhalable fraction)
Methyl Ethyl Keton	78-93-3	200 Ppm TWA
ACGIH - Threshold Limits Values - TLV Basis - Critical Effects		
Carbon black	1333-86-4	lung
Magnesium oxide fume	1309-48-4	irritation; metal fume fever
Methyl Ethyl Keton	78-93-3	Irritation; CNS
OSHA - Final PELs - Time Weighted Averages (TWAs)		
Carbon black	1333-86-4	3.5 Mg/m ³ TWA
Magnesium oxide fume	1309-48-4	15 Mg/m ³ TWA (total particulate)
Methyl Ethyl Keton	78-93-3	200 Ppm TWA; 590 mg/m ³ TWA

Personal protective equipment

Respiratory protection	A NIOSH- approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.
Hand protection	Protective gloves.
Eye protection	Wear chemical goggles. Face-shield.
Skin and body protection	Wear suitable protective clothing.
General	Avoid contact with the skin and the eyes. Structural firefighters protective clothing will only provide limited protection.
Engineering measures to reduce exposure	Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.
Hygiene measures	When using do not smoke. Handle in accordance with good industrial hygiene and safety practice. Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practice for diagnostics.

9. PHYSICAL & CHEMICAL PROPERTIES

Boiling point	176 °F (80 °C)
Density	8.66 lb/gal
Form	Liquid.
Specific gravity	1.04

10. CHEMICAL STABILITY & REACTIVITY INFORMATION

Stability	Risk of ignition.
Conditions to avoid	Heat, flames and sparks. Vapors may form explosive mixture with air.
Hazardous polymerization	Will not occur.
Incompatibility	Chlorine. Fluoride. Strong oxidizing agents. This product is incompatible with nitrates.

11. TOXICOLOGICAL INFORMATION

Local effects	Risk of serious damage to eyes. Components of the product may be absorbed into the body through the skin.
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Component analysis - LD50

NIOSH - Selected LD50s and LC50s

Carbon black	1333-86-4	Oral LD50 Rat: >15400 mg/kg; Dermal LD50 Rabbit: >3 g/kg
Methyl Ethyl Keton	78-93-3	Inhalation LC50 Rat: 23500 mg/m ³ /8H; Inhalation LC50 Mouse: 32 g/m ³ /4H; Oral LD50 Rat: 2737 mg/kg; Oral LD50 Mouse: 4050 mg/kg; Dermal LD50 Rabbit: 6480 mg/kg

Carcinogenicity	Cancer hazard.
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ACGIH - Threshold Limits Values - Carcinogens

Carbon black	1333-86-4	A4 - Not Classifiable as a Human Carcinogen
Magnesium oxide fume	1309-48-4	A4 - Not Classifiable as a Human Carcinogen

Chronic toxicity	Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood. Prolonged or repeated exposure may cause lung injury.
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Further information	Symptoms may be delayed.
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12. ECOLOGICAL INFORMATION

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

Ecotoxicity - Freshwater Fish Species Data

Methyl Ethyl Keton	78-93-3	96 Hr LC50 fathead minnow: 3220 mg/L (flow-through); 96 Hr LC50 bluegill: 1690 mg/L
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Ecotoxicity - Microtox Data

Methyl Ethyl Keton	78-93-3	5 Min EC50 Photobacterium phosphoreum: 3426 mg/L; 30 min EC50 Photobacterium phosphoreum: 3403 mg/L
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Ecotoxicity - Water Flea Data

Methyl Ethyl Keton	78-93-3	48 Hr EC50 water flea: 520 mg/L
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13. DISPOSAL CONSIDERATIONS

Waste codes	D001: Waste Flammable material with a flash point <140 F
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Disposal instructions

Consult authorities before disposal. If discarded, this product is considered a RCRA ignitable waste, D001. Incinerate the material under controlled conditions in an approved incinerator. Dispose of this material and its container at hazardous or special waste collection point. Dispose in accordance with all applicable regulations. 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.

14. TRANSPORTATION INFORMATION**Department of Transportation (DOT) Requirements**

Proper shipping name	COATING SOLUTION
Hazard class	3
Special provisions	IB2, T4, TP1, TP8
Packaging exceptions	150
Packaging non bulk	202
Packaging bulk	242
Quantity limits passenger	5 L
Quantity limits cargo	60 L
Vessel stowage location	B
UN number	UN1139
Packaging group	II
Labels required	3
ERG number	127

DOT

**International Air Transport Association (IATA) Requirements**

Proper shipping name	COATING SOLUTION,
Hazard class	3
Special provisions	IB2, T4, TP1, TP8
Packaging exceptions	150
Packaging non bulk	202
Packaging bulk	242
Quantity limits passenger	5 L
Quantity limits cargo	60 L
Vessel stowage location	B
UN number	UN1139
Packaging group	II
Labels required	3
Passenger Cargo Pkg Inst	Y305
LQ	305
Packaging Instructions	307
Pkg Inst Cargo Only	

IATA



International Maritime Dangerous Goods (IMDG) Code Requirements

Proper shipping name	COATING SOLUTION
Hazard class	3
Special provisions	640D
Packaging exceptions	150
Packaging non bulk	202
Packaging bulk	242
Quantity limits passenger	5 L
Quantity limits cargo	60 L
Vessel stowage location	B
Item	F1
UN number	UN1139
Packaging group	II
Labels required	3
Hazard ID	33
Transport Category	2

IMDG



15. REGULATORY INFORMATION

US federal regulations

CERCLA/SARA - Section 313 - Emission Reporting

Methyl Ethyl Keton 78-93-3 1.0 % de minimis concentration

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

Carbon black 1333-86-4 215-609-9

Magnesium oxide fume 1309-48-4 215-171-9

Methyl Ethyl Keton 78-93-3 201-159-0

Inventory - United States - Section 8(b) Inventory (TSCA)

Carbon black 1333-86-4 XU

Magnesium oxide fume 1309-48-4 Present

Methyl Ethyl Keton 78-93-3 Present

Occupational safety and health administration (OSHA)

29 CFR 1910.1200 Yes
hazardous chemical

CERCLA (superfund) reportable quantity

Methyl Ethyl Keton: 5000.0000

Superfund amendments and reauthorization act of 1986 (SARA)

Section 302 extremely hazardous substance No

Section 311 hazardous chemical Yes

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

NFPA ratings

Health: 0
Flammability: 3
Instability: 0

International regulations

Canada - 2004 NPRI (National Pollutant Release Inventory)

Methyl Ethyl Keton 78-93-3 Part 1, Group 1 Substance; Part 5 Substance

Canada - WHMIS - Ingredient Disclosure List

Carbon black 1333-86-4 1 % (English Item 309, French Item 1271)

Magnesium oxide fume 1309-48-4 1 % (English Item 959, French Item 1314)

Methyl Ethyl Keton 78-93-3 1 % (English Item 1045, French Item 1133)

State regulations

California - Proposition 65 - Carcinogens List

Carbon black 1333-86-4 carcinogen, initial date 2/21/03 (airborne, unbound particles of respirable size)

Massachusetts - Right To Know List

Carbon black 1333-86-4 Present; Exempt when encapsulated or if particulates are not present and cannot be substantially generated through use of the product.

Magnesium oxide fume 1309-48-4 Present

Methyl Ethyl Keton 78-93-3 Present

New Jersey - Right to Know Hazardous Substance List

Carbon black 1333-86-4 sn 0342

Magnesium oxide fume 1309-48-4 sn 1144

Methyl Ethyl Keton 78-93-3 sn 1258

Pennsylvania - RTK (Right to Know) List

Carbon black 1333-86-4 Present

Magnesium oxide fume 1309-48-4 Present

Methyl Ethyl Keton 78-93-3 Environmental hazard

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.

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