1. PRODUCT AND COMPANY IDENTIFICATION

Product name	**PolySpec IMO UltraLite TG - Filler/Side D**
Version #	1.0
Revision date	11-Jun-2009
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
Silica, fused	60676-86-0	< 60
Ashes, residues	68131-74-8	< 20
Magnesium oxide fume	1309-48-4	< 2.5
Calcium oxide	1305-78-8	< 10
Non-hazardous and other components below reportable levels		> 10

Composition comments This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

3. HAZARDS IDENTIFICATION

Emergency overview Irritating to respiratory system. Danger of serious damage to health by prolonged exposure. May cause breathing disorders and lung damage. Causes skin and eye burns.

Potential short term health effects

Eyes	This product causes eye burns. Risk of serious damage to eyes.
Skin	Causes skin burns.
Inhalation	May cause breathing disorders and lung damage. Irritating to respiratory system.
Ingestion	Do not ingest. Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly the digestive tract.

Target organs Eyes. Respiratory system. Skin.

4. FIRST AID MEASURES

First aid

Eye contact	Immediately flush eyes with plenty of water for at least 20 minutes. Get medical attention immediately.
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.
Inhalation	Get medical attention immediately. Move to fresh air. Do not use mouth-to-mouth method if victim inhaled the substance. Oxygen or artificial respiration if needed. 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 Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Immediate medical attention is required. Keep victim warm. In case of shortness of breath, give oxygen.

5. FIRE FIGHTING MEASURES

General fire hazards Not a fire hazard.

Suitable extinguishing media	Small Fires: Dry chemical, CO2, water spray or regular foam. Large Fires: Water spray, fog or regular foam.

6. ACCIDENTAL RELEASE MEASURES

Evacuation procedures	Ventilate closed spaces before entering. Stay upwind. Keep out of low areas. Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained.
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.
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.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not contaminate water.
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	Do not get this material in your eyes, on your skin, or on your clothing. Do not breathe gas/fumes/vapor/spray. Handle and open container with care. Surfaces may become slippery after spillage.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Use care in handling/storage. Do not freeze.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits

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

Calcium oxide	1305-78-8	2 Mg/m3 TWA
Magnesium oxide fume	1309-48-4	10 Mg/m3 TWA (inhalable fraction)
Silica, fused	60676-86-0	0.1 Mg/m3 TWA (respirable fraction)

ACGIH - Threshold Limits Values - TLV Basis - Critical Effects

Calcium oxide	1305-78-8	irritation
Magnesium oxide fume	1309-48-4	irritation; metal fume fever
Silica, fused	60676-86-0	lung fibrosis

OSHA - Final PELs - Time Weighted Averages (TWAs)

Calcium oxide	1305-78-8	5 Mg/m3 TWA
Magnesium oxide fume	1309-48-4	15 Mg/m3 TWA (total particulate)

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 chemical protective equipment that is specifically recommended by the manufacturer. It may provide little or no thermal protection. Wear appropriate chemical resistant gloves. Use chemical splash goggles and face shield (ANSI Z87.1 or approved equivalent).
General	Structural firefighters protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations. Avoid contact with the skin and the eyes. Wear suitable protective equipment.
Engineering measures to reduce exposure	Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.
Hygiene measures	Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with the skin and the eyes.

9. PHYSICAL & CHEMICAL PROPERTIES

Density	5.83 lb/gal
Form	Liquid.
Specific gravity	0.6996

10. CHEMICAL STABILITY & REACTIVITY INFORMATION

Stability Stable at normal conditions. No hazards to be especially mentioned.

Incompatibility Acids. Chlorine. Fluoride. Fluorine.

11. TOXICOLOGICAL INFORMATION

Acute toxicity Causes burns.

Local effects Irritating to respiratory system.

Carcinogenicity

ACGIH - Threshold Limits Values - Carcinogens

Magnesium oxide fume	1309-48-4	A4 - Not Classifiable as a Human Carcinogen

Chronic toxicity Prolonged or repeated exposure may cause lung injury.

Routes of exposure Inhalation.

12. ECOLOGICAL INFORMATION

Ecotoxicity This material is not expected to be harmful to aquatic life.

13. DISPOSAL CONSIDERATIONS

Disposal instructions 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

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.

15. REGULATORY INFORMATION

US federal regulations

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

Ashes, residues	68131-74-8	268-627-4
Calcium oxide	1305-78-8	215-138-9
Magnesium oxide fume	1309-48-4	215-171-9
Silica, fused	60676-86-0	262-373-8

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

Ashes, residues	68131-74-8	XU
Calcium oxide	1305-78-8	Present
Magnesium oxide fume	1309-48-4	Present
Silica, fused	60676-86-0	Present

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: 3
Flammability: 0
Instability: 0

International regulations

Canada - WHMIS - Ingredient Disclosure List

Calcium oxide	1305-78-8	1 % (English Item 304, French Item 1303)
Magnesium oxide fume	1309-48-4	1 % (English Item 959, French Item 1314)
Silica, fused	60676-86-0	1 % (English Item 1404, French Item 1487)

State regulations

Massachusetts - Right To Know List

Calcium oxide	1305-78-8	Present
Magnesium oxide fume	1309-48-4	Present
Silica, fused	60676-86-0	Present

New Jersey - Right to Know Hazardous Substance List

Calcium oxide	1305-78-8	sn 0325
Magnesium oxide fume	1309-48-4	sn 1144
Silica, fused	60676-86-0	sn 1656

Pennsylvania - RTK (Right to Know) List

Calcium oxide	1305-78-8	Present
Magnesium oxide fume	1309-48-4	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

11-Jun-2009

MSDS sections updated

This document has undergone significant changes and should be reviewed in its entiret