

SECTION V – HEALTH HAZARD DATA

Exposure Limits:	TLV	STEL	ACGIH	PEL	IDLH
PTFE	none established	n/a	n/a	*	n/a

* 15 mg/m³ - 8 hr. TWA - Total dust
5 mg/m³ - 8 hr. TWA - Respirable Dust

Symptoms of Exposure:

- Inhalation: No specific intervention is indicated as the compound is not likely to be hazardous by inhalation. Consult a physician if necessary.
- Skin: The compound is not likely to be hazardous through skin contact, but cleansing the skin after use is advisable.
- Eye: Irritation.
- Ingestion: Not likely to be hazardous by ingestion.
- Fume fever: Inhalation of fumes from burning PTFE may cause polymer fume fever, a temporary flue-like illness with fever, chills, and sometimes cough of approximately 24 hours duration.

Chronic effects of overexposure: Kidney and/or liver damage from HF. Polymer fume fever from burning Spectralon®.

First Aid:

- Inhalation: Remove to fresh air. Treat symptomatically. If symptoms persist, seek medical attention.
- Skin: Cleansing the skin after use with soap and water is advisable. If symptoms persist, seek medical attention.
- Eye: Immediately flush eyes with plenty of water for a least 15 minutes. Seek medical attention.
- Ingestion: No specific intervention is indicated as compound is not likely to be hazardous. Consult physician if necessary.

SECTION VI – REACTIVITY DATA

Stability: Stable

Conditions to Avoid: An atmosphere of 95% oxygen when an ignition source is present.

Incompatibility: Organolithium, organosodiums, alkali metals.

Hazardous Decomposition Products: Heating above the melting point, or prolonged heating above 500°F may cause evolution of particulate matter, which can cause polymer fume fever. Trace amounts of hydrogen fluoride and carbonyl fluoride (from 750°).

Hazardous Polymerization: Will not occur.

SECTION VII – PERSONAL PROTECTION AND CONTROLS

Ventilation: Good general room ventilation should be used. At processing temperatures less than 750° F a NIOSH approved air purifying respirator with dust/mist carriage or canister may provide protection from airborne particulates which cause polymer fume fever. At higher processing temperatures if ventilation is inadequate to maintain hydrogen fluoride and carbonyl fluoride concentrations below exposure limits, use a positive pressure air supplied respirator. Air purifying respirators may not provide adequate protection.

Respiratory Protection: Respiratory protection required if local exhaust ventilation is inadequate. Dust respirators are recommended.



P.O. Box 70 • Shaker Street • North Sutton, NH 03260
Tel: 603-927-4266 • Fax: 603-927-4694
Email: labsphere@labsphere.com • www.labsphere.com



Skin and Eye Protection: Protective gloves and safety glasses.

OTHER: Avoid contamination of cigarettes or tobacco with Spectralon. If there is potential contact with hot/molten material, wear heat resistant clothing and footwear.

SECTION VIII – SPECIAL STORAGE AND HANDLING PRECAUTIONS

Keep container tightly closed to avoid contamination.

Enforce no smoking rule in areas where Spectralon is handled or stored. Wash hands and face after handling to avoid transfer of Spectralon dust onto cigarettes and tobacco.

SECTION IX – SPILL LEAK AND DISPOSAL PROCEDURES

Spill Response:

Review Fire and Explosion Hazards, Section IV and Personal Protective Equipment Section VII before proceeding with clean-up. Sweep up to avoid slipping hazard.

Waste Disposal Methods:

Dispose of products in accordance with applicable local, county, state and federal regulations. Incinerate only if incinerator is capable of scrubbing out hydrogen fluoride and other acidic combustion products.

The information contained herein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of the suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers.

END OF MATERIALS DATA SHEET — SPECTRALON WHITE REFLECTANCE MATERIAL



P.O. Box 70 • Shaker Street • North Sutton, NH 03260
Tel: 603-927-4266 • Fax: 603-927-4694
Email: labsphere@labsphere.com • www.labsphere.com

