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## MATERIAL SAFETY DATA SHEET

**Product: CoverShield Safety Coated Lamps**

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### **SECTION 1: MANUFACTURER**

Manufacturer's Name and Address: Halco Lighting Technologies  
2940 Pacific Drive  
Norcross, GA 30071  
Telephone: 770-242-3612  
Fax: 800-880-0822

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### **SECTION 2: HAZARDOUS INGREDIENTS**

#### Emergency Overview:

May cause skin and eye irritation. May cause irritation of the upper respiratory tract (nose, mouth and/or throat), resulting in sneezing, coughing and sore throat. Long-term respiratory exposure exceeding exposure limits may damage the lungs, leading to impairment of lung capacity.

#### Potential Health Effects:

*Inhalation:* Dust generated from this product may be irritating to the respiratory tract.

*Ingestion:* May result in gastrointestinal distress.

*Skin or eye contact:* Dust generated from this product may cause irritation of the eyes.

Repeated prolonged contact may cause skin irritation with discomfort and dermatitis.

#### Other Potential Health Effects in addition to those listed above:

##### **PERFLUOROALKOXY RESIN**

Inhalation of fluoropolymer dust may cause irritation of the nose throat and lungs with cough, difficulty breathing or shortness of breath. Inhalation of fumes (fine particles) and gases produced from overheated fluoropolymer may result in delayed or immediate respiratory effects. The severity of these effects depends on the extent of overheating and the quantity inhaled. Mild exposure may result in polymer fume fever, a temporary flue-like condition characterized by fever, chills, and/or cough. These symptoms are not immediate and typically occur after a delay of approximately 2-24 hours following exposure. However, exposure to decomposition products (fume and fluorinated gases) from fluoropolymer heated to temperatures above the typical processing temperature, especially in poorly ventilated or confined areas may cause lung damage. These decomposition products may produce progressive breathing difficulty and later develop in to severe pulmonary edema. Edema may be delayed and unlike polymer fume fever, requires medical intervention. Do not exceed recommended baking temperatures. Baking ovens must be properly ventilated. At temperatures above 400C (750F), small amounts of hydrogen fluoride can be evolved; amounts increase as temperatures increase. Hydrogen fluoride is toxic and can cause skin and eye irritation. High concentrations can cause lung damage, pulmonary edema, burns. Some vegetation is particularly sensitive to damage by

hydrogen fluoride and attention must be given to exhaust ventilation. Explosive reaction may occur above 800 degrees F with finely divided fluorocarbon and metal powder (aluminum or magnesium). Operations such as grinding, buffing or grit blasting may generate such mixtures. Avoid any dust buildup with fluorocarbons and metal mixtures.

Do not exceed recommended baking temperatures. Baking ovens must be properly ventilated. At temperatures above 400C (750F), small amounts of carbonyl fluoride can be evolved. This substance irritates the eyes, the skin and respiratory tract. Inhalation of high concentrations may cause lung edema. The effects may be delayed. Individuals with preexisting diseases of the lungs may have increased susceptibility to the toxicity of excessive exposures from thermal decomposition products.

WARNING: This chemical contains Tetrafluoroethylene with is known to the State of California to cause cancer.

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### **SECTION 3: FIRST AID MEASURES**

Inhalation: In the event of inhalation of dust from this product, move to fresh air. Get medical attention if cough or other symptoms develop.

Ingestion: In the unlikely event of ingestion, call a physician immediately and have names of ingredients available.

Skin or eye: In case of eye contact, immediately flush with plenty of water for at least 15 minutes; call a physician. In case of skin contact, wash thoroughly with soap and water. If irritation occurs, contact a physician.

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### **SECTION 4: FIRE AND EXPLOSION DATA**

Flash Point (Method)	Above 200 deg F (Closed Cup)
Approx. flammable limits	No information available.
Auto ignition temperature	No information available.

*Hazardous Combustion Products:*

CO, CO<sub>2</sub>, smoke and oxide<sub>3</sub>s of any heavy metals that are reported in "Composition, Information on Ingredients.

*Extinguishing Media:*

A suitable dry chemical extinguisher agent (Class D Fire) or sand.

*Special fire fighting procedures:*

Full protective equipment, including self-contained breathing apparatus, is recommended.

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### **SECTION 5: ACCIDENTAL RELEASE MEASURES**

Procedures for leaning up spills or leaks:

Sweep up material and dispose of properly. Avoid breathing any dust that might be generated.

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**SECTION 6: HANDLING AND STORAGE****Precautions to be taken in handling and storing:**

Observe label precautions. Close container after each use. Do not transfer contents to unlabeled containers. Wash thoroughly after handling and before eating or smoking.

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**SECTION 7: EXPOSURE CONTROLS OR PERSONAL PROTECTION****Engineering controls and work practices:**

*Ventilation:* Provide sufficient ventilation in volume and pattern to keep contaminants below applicable exposure limits.

*Personal Protective Equipment:* Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

*Respiratory:* Should any dust be generated, it should not be breathed. If a respirator is needed to meet applicable exposure limits, wear a properly fitted air-purifying respirator approved by NIOSH. Follow respirator manufacturer's directions for respirator use.

*Protective clothing:* Gloves are recommended.

*Eye protection:* Desirable in all industrial situations.

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**SECTION 8: PHYSICAL AND CHEMICAL PROPERTIES**

Evaporation Rate	Not applicable
Vapor Pressure of principal solvent	Not applicable
Solubility of solvent in water	Not applicable
Vapor density of principal solvent (Air = 1)	Not applicable
Approx. Boiling range	Not applicable
Approx. Freezing range	Not applicable
Gallon weight (lbs/gal)	17.90
Specific gravity	2.15
Percent volatile by volume	0.00
Percent volatile by weight	0.00
Percent solids by volume	100.00
Percent solids by weight	100.00
Physical state	Solid
pH (Waterborne systems only)	Not applicable
VOC less exempt (lbs/gal)	0.00
VOC as packaged (lbs/gal)	0.00

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**SECTION 9: STABILITY AND REACTIVITY**

*Stability:* Stable

*Incompatibility:* None reasonably foreseeable

*Hazardous decomposition products:* CO, CO<sub>2</sub>, smoke and oxides of any heavy metals that are reported in "Composition, Information on Ingredients."

*Hazardous polymerization:* Will not occur.

*Sensitivity to static discharge:* None Known

*Sensitivity to mechanical impact:* None Known

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**SECTION 10: TOXICOLOGICAL INFORMATION**

May be toxic to small animals or birds. Do not use in enclosed space with these animals.

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**SECTION 11: ECOLOGICAL INFORMATION**

No information available.

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**SECTION 12: DISPOSAL CONSIDERATIONS**

Waste disposal method:

Do not allow material to contaminate ground water systems. Incinerate or otherwise dispose of waste material in accordance with Federal, State, Provincial and local requirements. Do not incinerate in closed containers.

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**SECTION 13: TRANSPORTATION INFORMATION**

No information available.

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**SECTION 14: REGULATORY INFORMATION**

TSCA Status:

In compliance with TSCA Inventory requirements for commercial purposes.

DSL Status:

All components of the mixture are listed on the DSL

Photochemical reactivity:

Non-photochemically reactive.

Other regulatory information:

CAS#	Ingredient	302	TPQ/RQ	EPCRA		CERCLA	
				311/312	313	RQ(lbs)	HAP
26655-00-5	PERFLUOROALKOXY RESIN	N	NR	N	N	NR	N

Key:

EPCRA: Emergency Planning and Community Right-to-Know Act

302: Extremely hazardous substances

311/312 Categories: F = Fire Hazard

R = Reactivity Hazard

P = Pressure Related Hazard

A = Acute Hazard

C = Chronic Hazard

313 Information: Supplier Notification – If Y, subject to reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know act of 1986 and of 40 CFR 372

CERCLA: Comprehensive Emergency Response, Compensation and Liability Act of 1980

HAP = Listed as Clean Air Act Hazardous Air Pollutant

TPQ = Threshold Planning Quantity

RQ = Reportable quantity

NA = Not available

NR = Not regulated