

**GFS CHEMICALS, INC.**  
P.O. Box 245 Powell, OH 43065  
740-881-5501(Tel.) 740-881-5989(Fax)  
1-800-424-9300(Chemtrec 24Hr. Info.)

**MATERIAL SAFETY DATA SHEET**

341

**CESIUM PERCHLORATE**

**CHEMICAL NAME & SYNONYMS**

Cesium Perchlorate

**DOT CLASS**

5.1/II

**SARA TITLE 313**

No

**TSCA listed** - Yes

**FORMULA**

CsClO<sub>4</sub>

**REPORTABLE QUANTITY**

N/A

**F.W.**

232.37

**CAS#**

13454-84-7

**PHYSICAL DATA**

Density 3.3; Decomposes above 224°C; Slightly soluble in water (1.9 g/100 ml).

**APPEARANCE & ODOR**

White crystalline powder. Odorless.

**REACTIVITY & CONDITIONS TO AVOID**

Stable. No hazardous self-reactivity. Incompatible with reducing agents, combustibles and strong mineral acids.

**FIRE HAZARDS**

May cause fire or explosion in contact with a wide range of reductants or combustibles. NFPA # 1-0-1.

**EXTINGUISHER**

Water spray.

**FLASHPOINT**

N/A

**LEL**

N/A

**UEL**

N/A

**HEALTH HAZARDS**

Will irritate skin, eyes and mucous membranes. Ingestion may cause irritability or spasms. Estimated LD<sub>50</sub> (oral-rat) about 2500 mg/kg. No actual LD/TD information available. OSHA PEL/ACGIH TLV not established. Not absorbed through skin. Mutagenic data on other cesium compounds has been reported. The perchlorate ion has been shown to interfere with iodine uptake by the thyroid in test animals. Studies on workers in plants where perchlorate salts are manufactured have shown no thyroid abnormalities. Thyroid effects on humans continues to be studied. No evidence of carcinogenicity.

**SPECIAL PRECAUTIONS**

Wear goggles and rubber gloves while handling. Use adequate ventilation or suitable respirator to avoid inhalation of dust. Store away from combustibles. Wash contaminated clothing with water.

**FIRST AID**

Wash skin and eyes thoroughly with water after contact. If irritation persists, see a physician. If swallowed, give water to drink and get medical attention. Do not induce vomiting unless directed by a physician. If inhaled, remove to fresh air. Get medical attention if breathing difficulties occur.

**SPILLS & LEAKS**

Moisten spill with water and sweep or wash to sanitary drain (check local regulations). Do not allow spill to contact wood or paper. If spilled on wooden floor, wet the floor thoroughly with water and remove and incinerate it.

**CATALOG #**

341

**PREPARED BY**

MDM

**DATE**

April 9, 2007

Full Warranty and Limitations Statement should be reviewed at [www.gfschemicals.com/terms.asp](http://www.gfschemicals.com/terms.asp).