



## MATERIAL SAFETY DATA SHEET

Section 1: Product & Company Identification	
<b>Product Name:</b>	Cefsulodin Sodium Salt
<b>Product #:</b>	C-1457
<b>Synonyms:</b>	CEFOTAXIME SODIUM; CLAFORAN; CTX; HR 756; SODIUM 7-(2-(2-AMINO-4-THIAZOLYL)-2-ETHOXYIMINOACETAMIDO) CEPHALOSPORANATE; RU 24756
<b>Supplier:</b>	A.G. Scientific, Inc. 6450 Lusk Blvd E102 San Diego CA 92121 Tele# + 858-452-9925 Fax# + 858-452-9926
<b>Emergency Tele#:</b>	Chemtrec, Tele# in USA 1-800-424-9300, International 1-703-527-3887

Section 2: Composition / Information on Ingredients					
Component	CAS#	EC #	%	Classification	R Phrases
	52152-93-9	257-692-4	> 98%		R36/37/38-42/43

Section 3: Hazards Identification	
<b>Symbols</b>	
<b>HMIS Classification</b>	<p>FLAMMABILITY</p> <p>HEALTH      REACTIVITY</p> <p>OTHER</p>
<b>NFPA Classification</b>	<p>FLAMMABILITY</p> <p>HEALTH      REACTIVITY</p> <p>OTHER</p>

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## Section 4: First Aid Measures

<b>General Overview:</b>	Avoid contact, wear suitable protective clothing, gloves and eye/face protection.
<b>Inhalation:</b>	If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing give artificial respiration, seek medical attention.
<b>Skin:</b>	Wash immediately with water for 15 minutes. Remove contaminated clothing. Wash contaminated clothing before reuse. Seek medical attention if symptoms appear.
<b>Eyes:</b>	In case of contact, immediately flush eyes or skin with copious amounts of water for at least 15 minutes. Remove contacts. Assure adequate flushing of the eyes by separating the eyelids with fingers.
<b>Ingestion:</b>	If swallowed, wash out mouth with water provided person is conscious. DO NOT induce vomiting. Seek medical attention if symptoms appear. Loosen tight clothing like collar, tie, belt or waistband.
	<i>See section 11 for more detailed information on health effects &amp; symptoms</i>

## SECTION 5: Fire Fighting Measures

<b>Flammability of the product:</b>	May emit toxic fumes under fire conditions.
<b>Extinguishing Media:</b>	Dry Chemical Powder for SMALL FIRES and carbon dioxide or water spray, fog or foam for LARGE FIRES. Do not use water jet.
<b>Hazardous thermal (de)composition products:</b>	Carbon monoxide (CO), carbon dioxide (CO <sub>2</sub> ), nitrogen oxides (NO <sub>x</sub> ), sulfur oxides (SO <sub>x</sub> ), other pyrolysis products typical of burning organic material.
<b>Special Fire Fighting Procedures:</b>	Wear self-contained breathing apparatus (SCBA) and protective clothing to prevent contact with skin and eyes. Be sure to use an approved/certified respirator or equivalent.
<b>Flash Point:</b>	N/A

## Section 6: Accidental Release Measures

<b>Personal Precautions:</b>	Use Personal Protection Equipment. Splash goggles. Full suit. Boots. Gloves. Avoid dust formation.
<b>Environmental Precautions:</b>	Do not let product enter drains.
<b>Methods for Clean-up:</b>	Sweep up & shovel into suitable disposal container. Ventilate area and wash spill site after material pickup is complete.

## SECTION 7: Handling & Storage

<b>Storage:</b>	+4°C. Long term storage at -20°C. Keep container tightly closed and in a well ventilated area.
<b>Handling:</b>	Use only in area provided with appropriate exhaust ventilation. Keep away from heat and

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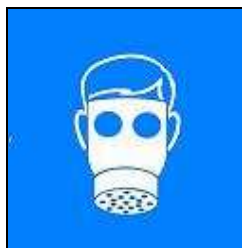
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source of ignition. Empty containers pose a fire risk, evaporate residue under fume hood. Ground all equipment containing material. Do not breathe dust.

## SECTION 8: Exposure controls / Personal Protection

**Respiratory Protection:**



Wear appropriate government (NIOSH/MSHA) approved respirator. Do not breathe vapor.

**Skin and Body:**



Chemical-resistant gloves and lab coat/other protective clothing. Avoid prolonged or repeated exposure. Wash thoroughly after handling.

**Eyes:**



Safety goggles.

**Ventilation/Engineering Measures:**

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits.

**Hygiene:**

Wash hands after handling compound and before eating, smoking, using lavatory and at the end of the day.

**Other:**

Contains no substances with occupational exposure limit values.

## SECTION 9: Physical and Chemical Properties

**Appearance & Odor:** Crystalline powder

**Color:** White-yellowish

**Formula:**  $C_{22}H_{19}N_4O_8S_2Na$

**Molecular Wt.** 554.5 g/mole

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<b>Melting Pt.</b>	N/A
<b>Boiling Pt.</b>	N/A
<b>Density:</b>	N/A
<b>Vapor Pressure:</b>	N/A
<b>Evaporation Rate:</b>	N/A
<b>Vapor Density:</b>	N/A
<b>Water Solubility:</b>	N/A
<b>Flash Point:</b>	N/A
<b>Autoignition Temp:</b>	N/A

## SECTION 10: Stability and Reactivity

<b>Stability:</b>	Stable
<b>Hazardous decomposition products:</b>	N/A
<b>Materials to Avoid:</b>	Strong oxidizing agents
<b>Conditions to avoid:</b>	N/A

## SECTION 11: Toxicological Information

<b>RTECS#:</b>	UU1785000
<b>ACUTE Toxicity:</b>	IRRITANT LD <sub>50</sub> : Oral (rat) > 15000 mg/kg
<b>CHRONIC Toxicity:</b>	Repeat or prolonged exposure is not known to aggravate medical conditions.
<b>Chronic Exposure:</b> <b>Carcinogen:</b> <b>Mutagen:</b> <b>Teratogen:</b> <b>Reproductive:</b>	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. AGGIH: No component of this product present at levels greater than or equal to 0.1% is identified as probable, potential human carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as known or, anticipated human carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as known or, potential human carcinogen by OSHA. EPA: No classification on carcinogenic data is available from EPA

## SECTION 12: Ecological Information

<b>Ecotoxicity:</b>	N/A
<b>Mobility:</b>	N/A
<b>Persistence and degradability:</b>	N/A
<b>Bioaccumulative potential:</b>	N/A
<b>Other adverse effects:</b>	N/A
<b>Corrosivity Characteristic:</b>	N/A
<b>General Notes:</b>	Do not allow undiluted product or large quantities of it to reach groundwater, water course or sewer system. Do not allow materials to be released into the

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	environment without proper government permits.
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## SECTION 13: Disposal Considerations

<b>Residue Waste or Unused product:</b>	<i>Only professional staff trained in such techniques must undertake waste disposal. Observe all appropriate federal, provincial or state and local regulations.</i>
<b>Contaminated Packaging:</b>	Do not re-use empty containers. Dispose of as unused product.

## SECTION 14: Transportation Information

<b>UN ID#:</b>	N/A
<b>ADR / RID (LAND):</b>	Not controlled, Not dangerous goods
<b>DOT regulations:</b>	Not controlled, Not dangerous goods
<b>IMDG/IMO (SEA):</b>	Not controlled under IMDG, Not dangerous goods
<b>IATA/DGR (AIR):</b>	Not controlled, Not dangerous goods
<b>Special Provisions:</b>	N/A

## SECTION 15: Regulatory Information

<b>EU Regulations:</b>	This product is not classified according to the EU regulations.
<b>SYMBOLS:</b>	 Xi
<b>Risk Phrases:</b>	R36/37/38, 42/43: Irritating to eyes, respiratory system and skin. May cause sensitization by inhalation and skin contact.
<b>Safety Phrases:</b>	S22, 26, 36/37, 45: Do not breathe dust. Wear suitable protective clothing and gloves. In case of accident or if you feel unwell seek medical advice immediately (show the label where possible).
<b>CAS#</b> <b>EC#</b>	30827-99-7 257-692-4
<b>US Regulations:</b>	TSCA. No products were found. California Proposition 65: No products were found.
<b>HCS Classification:</b>	Not controlled under the HCS (United States).
<b>U.S. Federal Regulations:</b>	OSHA: Skin sensitizer, irritant. TSCA: No products were found. SARA 302/304/311/312 extremely hazardous substances: No products were found SARA 302/304 emergency planning and notification: No products were found.

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	<p>SARA 302/304/311/312 hazardous chemicals: No products were found.          SARA 311/312 MSDS distribution-chemical inventory-hazard identification: Acute health hazard.          SARA 313 toxic chemicals notification and release reporting: No products were found.          Clean Water Act (CWA) 307: No products were found.          Clean Water Act (CWA) 311: No products were found.          Clean Air Act (CAA) 112 accidental release prevention: No products were found.          Clean Air Act (CAA) 112 regulated flammable substances: No products were found.          Clean Air Act (CAA) 112 regulated toxic substances: No products were found.</p>
<b>WHMIS (Canada):</b>	No products were found.

## SECTION 16: Other Information

**LIABILITY STATEMENT:** *The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. A.G. Scientific shall not be held liable for any damages resulting from handling or from contact with the above product. A.G. Scientific products are for research purposes only. Not for human use or consumption.*