

1. Product and Company Identification

www.rxmarine.com

Product Name Cerium III fluoride
Part Number RXSOL-60-6620-029

Company Details:....

RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
VASHI ,NEW BOMBAY 400703 INDIA

Branch : Kandla, Mumbai , Chennai, Vizag, Kolkata, UAE , OMAN , CANADA and KENYA

Phone +91 22 20871200 - 1400
Fax +91 22 27612100 :::AOH :0091 9821214367
Email mail@rxmarine.com
Website www.rxmarine.com

2. Composition / Information on ingredients

www.rxmarine.com

Component	CAS No	Weight-%
Cerium fluoride (CeF ₃)	7758-88-5	99.9

3. Hazards Identification

www.rxmarine.com

Classification	This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)
Acute oral toxicity	Category 4
Acute Inhalation Toxicity - Dusts and Mists	Category 4
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3

Label elements

Signal Word	Warning
Hazard Statements	Causes skin irritation
	Causes serious eye irritation
	May cause respiratory irritation
	Harmful if swallowed or if inhaled

Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

	Avoid breathing dust/fume/gas/mist/vapors/spray
	Use only outdoors or in a well-ventilated area
	Wear protective gloves/protective clothing/eye protection/face protection
	Inhalation
	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
	Call a POISON CENTER or doctor/physician if you feel unwell
	Skin
	IF ON SKIN: Wash with plenty of soap and water
	If skin irritation occurs: Get medical advice/attention
	Take off contaminated clothing and wash before reuse
	Eyes
	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention
	Ingestion
	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
	Rinse mouth
	Storage
	Store in a well-ventilated place. Keep container tightly closed
	Store locked up
	Disposal
	Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)	None identified

4. First Aid Measures

www.rxmarine.com

General Advice	If symptoms persist, call a physician.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Skin contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.

Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.
Most important symptoms and effects	None reasonably foreseeable.
Note to physicians	Treat symptomatically

5. Fire-fighting Measures

www.rxmarine.com

Suitable Extinguishing Media	Water spray. Carbon dioxide (CO ₂). Dry chemical. Chemical foam.
Unsuitable extinguishing media	No information available
Flash Point	No information available
Method	No information available
Autoignition Temperature	Not applicable
Explosion Limits	
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available
Specific Hazards Arising from the Chemical	Keep product and empty container away from heat and sources of ignition
Hazardous Combustion Products	Gaseous hydrogen fluoride (HF). Cerium oxide
Protective Equipment and Precautions for Firefighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental Release Measures

www.rxmarine.com

Personal precautions	Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.
Environmental Precautions	Should not be released into the environment. Do not allow material to contaminate groundwater system. Do not flush into surface water or sanitary sewer system.
Methods for Containment and Clean Up	Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal.

7. Handling and Storage

www.rxmarine.com

Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid ingestion and inhalation. Avoid dust formation. Do not get in eyes, on skin, or on clothing.
Storage	Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Protect from direct sunlight. Incompatible Materials. Acids.

8. Exposure controls and personal protection

www.rxmarine.com

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH	Mexico OEL (TWA)
Cerium fluoride (CeF ₃)	TWA: 2.5 mg/m ³	(Vacated) TWA: 2.5 mg/m ³	IDLH: 250 mg/m ³ TWA: 2.5 mg/m ³	TWA: 2.5 mg/m ³
Engineering Measures			Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.	
Personal Protective Equipment				
Eye/face Protection			Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN 166.	
Skin and body protection			Wear appropriate protective gloves and clothing to prevent skin exposure.	
Respiratory Protection			Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.	
Recommended Filter type			Particulates filter conforming to EN 143.	
Hygiene Measures			Handle in accordance with good industrial hygiene and safety practice.	

9. Physical and chemical properties

www.rxmarine.com

Physical State	Powder Solid
Appearance	White
Odor	No information available
Odor Threshold	No information available
pH	Not applicable
Melting Point/Range	1460 °C / 2660 °F
Boiling Point/Range	2300 °C / 4172 °F
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid, gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Density	6.16
Specific Gravity	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	Not applicable
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	Ce F ₃

Molecular weight 197.12

10. Stability and reactivity

www.rxmarine.com

Reactive Hazard	None known, based on information available
Stability	Stable. Light sensitive. Moisture sensitive.
Conditions to Avoid	Exposure to light. Incompatible products. Exposure to moist air or water
Incompatible Materials	Acids
Hazardous Decomposition Products	Gaseous hydrogen fluoride (HF), Cerium oxide
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

www.rxmarine.com

Acute Toxicity

Product Information

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Cerium fluoride (CeF ₃)	LD50 > 5 g/kg (Rat)	Not listed	LC50 > 5.53 mg/L (Rat) 4 h
Toxicologically Synergistic		No information available	

Delayed and immediate effects as well as chronic effects from short and long-term exposure

	Irritation	No information available
Sensitization		No information available
Carcinogenicity		The table below indicates whether each agency has listed any ingredient as acarcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Cerium fluoride (CeF ₃)	7758-88-5	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects				No information available		
Reproductive Effects				No information available		
Developmental Effects				No information available		
Teratogenicity				No information available		
STOT - single exposure				None known		
STOT - repeated exposure				None known		
Aspiration hazard				No information available		
Symptoms / effects,both acute and delayed				No information available		
Endocrine Disruptor Information				No information available		
Other Adverse Effects				The toxicological properties have not been fully investigated.		

12. Ecological information

www.rxmarine.com

Ecotoxicity	May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system
Persistence and degradability	May persist
Bioaccumulation/ Accumulation	No information available
Mobility	No information available.

13. Disposal considerations

www.rxmarine.com

Waste Disposal Methods	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification
------------------------	--

14. Transport information

www.rxmarine.com

DOT	Not regulated
TDG	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated

15. Regulatory information

www.rxmarine.com

United States of America Inventory

Component	CAS No		TSCA	TSCA Inventory notification -	TSCA - EPA Regulatory Flags					
Active-Inactive										
Cerium fluoride (CeF3)	7758-88-5	X	ACTIVE	-						
TSCA - Per 40 CFR 751, Regulation of Certain Chemical			Not applicable							
Substances & Mixtures, Under TSCA Section 6(h) (PBT)										
TSCA 12(b) - Notices of Export			Not applicable							
International Inventories			Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea(KECL).							
Compone nt	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Cerium fluoride (CeF3)	7758-88-5	X	-	231-841-3	X	X	X	X	X	KE-05417

U.S. Federal Regulations

SARA 313	Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372
----------	---

SARA 311/312 Hazard Categories	Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable
CERCLA	This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.
California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know	Not applicable
Regulations	
U.S. Department of Transportation	
Reportable Quantity (RQ):	N
DOT Marine Pollutant	N
DOT Severe Marine Pollutant	N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	
Mexico - Grade	No information available
Authorisation/Restrictions according to EU REACH	Not applicable

16. Other information

www.rxmarine.com

Other Information	<p>The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Rx Marine International has been advised of the possibility of such damages.</p> <p>DISCLAIMER OF LIABILITY :The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use</p>
-------------------	--

or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.