Material Safety Data Sheet

CESIUM FLUORIDE (RXSOL-60-6604-282)

1. Product and Company Identifaction

Product Name	RXSOL-60-6604-282
Product Type	CESIUM FLUORIDE
Revised date	

Company Details:

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

Stock Point : Mumbai, Kandla, Chennai, Visakhapatnam, Kolkata, Fujairah, Muscat Barka

Phone	+91 22 27815541 / 42
Fax	+91 22 2781 1318 :::AOH :0091 9821214367
Email	mail@rxmarine.com

2. Composition / informationon ingredients

2.1. Substances- CESIUM FLUORIDE AR
CAS-No.: 13400-13-0
Substance.
Contains no other components or impurities which will influence the classification of the product.

3. Hazards Identification

3.1. Classification of the substance or mixture
Classification according to Regulation (EC) No. 1272/2008 [CLP]
Acute toxicity (oral), H301
Category 3
Acute toxicity (dermal), H311
Category 3
Acute toxicity (inhalation:dust,mist) H331
Category 3
Skin corrosion/irritation, H315
Category 2
Serious eye damage/eye irritation, H318
Category 1
Reproductive toxicity, H361f
Category 2
Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]
Not classified
Adverse physicochemical, human health and environmental effects
No additional information available
3.2. Label elements
Labelling according to Regulation (EC) No. 1272/2008 [CLP] Extra labelling to display Extra classification(s) to display
Symbol(s) : T : Very toxic
N : Dangerous for the environment
R Phrase(s) : R23/24/25: Toxic by Inhalation, in contact with skin and if swallowed.
R34: Cause burns.
S Phrase(s) : S26: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advise.
S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S36/37/39 : Wear suitable protective clothing and gloves & eye/face protecting.
Hazard pictograms
Signal word : Danger
Hazard statements : H301+H311+H331 - Toxic if swallowed, in contact with skin or if

inhaled
H315 - Causes skin irritation
H318 - Causes serious eye damage.
H361f - Suspected of damaging fertility.
Precautionary statements : P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 - IF ON SKIN: Wash with plenty of water/…
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a POISON CENTER/doctor

3.3. Other hazards
No additional information available

4. First Aid Measures

4.1. Description of first aid measures
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If you feel unwell,
seek medical advice.
First-aid measures after skin contact : Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion : Rinse mouth out with water. If you feel unwell, seek medical advice.
4.2. Most important symptoms and effects, both acute and delayed
Symptoms/effects after inhalation : Toxic if inhaled
. Symptoms/effects after skin contact : Toxic in contact with skin. Causes skin irritation.
Symptoms/effects after eye contact : Causes serious eye damage.
Symptoms/effects after ingestion : Toxic if swallowed.
Chronic symptoms : Suspected of damaging fertility.
4.3. Indication of any immediate medical attention and special treatment needed
Treat symptomatically.

5. Fire-fighting Measures

5.1. Extinguishing media
Suitable extinguishing media : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).
Unsuitable extinguishing media : Do not use a heavy water stream.
5.2. Special hazards arising from the substance or mixture
No additional information available
5.3. Advice for firefighters
Protection during firefighting : Do not attempt to take action without suitable protective equipment
.

6. Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures
6.1.1. For non-emergency personnel
Emergency procedures : Avoid contact with skin, eyes and clothing.
6.1.2. For emergency responders
Protective equipment : Use personal protective equipment as required.
6.2. Environmental precautions
Avoid release to the environment.
6.3. Methods and material for containment and cleaning up
Methods for cleaning up : Clean contaminated surfaces with an excess of water.
6.4. Reference to other sections
No additional information available

7. Handling and Storage

7.1. Precautions for safe handling
Precautions for safe handling : Avoid contact with skin and eyes.
Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2. Conditions for safe storage, including any incompatibilities
Storage conditions : Store in a well-ventilated place. Keep container tightly closed.
7.3. Specific end use(s)
No additional information available

8. Exposure controls and personal protection

8.1. Control parameters
No additional information available
8.2. Exposure controls
Hand protection : Protective gloves
Eye protection : Chemical goggles or safety glasses
Skin and body protection : Wear suitable protective clothing
Respiratory protection : : Wear respiratory protection..

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties
Odour threshold : No data available
pH : 6.5 - 7.5 at 152 g/l at 20 °C
Relative evaporation rate (butylacetate=1) : No data available
Melting point : 682 °C
Freezing point : No data available
Boiling point : 1251 °C at 1013 hPa
Flash point : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapour pressure : No data available
Relative vapour density at 20 °C : No data available
Relative density : No data available
Density : 4.115 g/ml at 25 °C
Solubility : No data available
Log Pow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available
9.2. Other information
No additional information availabl

10. Stability and reactivity

10.1. Reactivity
No additional information available
10.2. Chemical stability
Stable under normal conditions.
10.3. Possibility of hazardous reactions
No additional information available
10.4. Conditions to avoid
Air contact. Moisture. Direct sunlight.
10.5. Incompatible materials
No additional information available
10.6. Hazardous decomposition products
No additional information available

11. Toxicological information

11.1. Information on toxicological effects
Acute toxicity : Oral: Toxic if swallowed. Dermal: Toxic in contact with skin.

Inhalation:dust,mist:
Toxic if inhaled.
Skin corrosion/irritation : Causes skin irritation.
pH: 6.5 - 7.5 at 152 g/l at 20 °C
Serious eye damage/irritation : Causes serious eye damage.
pH: 6.5 - 7.5 at 152 g/l at 20 °C
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified Reproductive toxicity : Suspected of damaging fertility.
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

12. Ecological information

12.1. Toxicity
No additional information available
12.2. Persistence and degradability
No additional information available
12.3. Bioaccumulative potential
No additional information available
12.4. Mobility in soil
No additional information available
12.5. Results of PBT and vPvB assessment
No additional information available
12.6. Other adverse effects
No additional information available

13. Disposal considerations

13.1. Waste treatment methods
No additional information available

14. Transport information

In accordance with ADR / RID / IMDG / IATA / ADN
14.1. UN number
UN-No. (ADR) : 3288
UN-No. (IMDG) : 3288
UN-No. (IATA) : 3288
UN-No. (ADN) : 3288
UN-No. (RID) : 3288
14.2. UN proper shipping name
Proper Shipping Name (ADR) : TOXIC SOLID, INORGANIC, N.O.S.
Proper Shipping Name (IMDG) : TOXIC SOLID, INORGANIC, N.O.S.
Proper Shipping Name (IATA) : Toxic solid, inorganic, n.o.s.
Proper Shipping Name (ADN) : TOXIC SOLID, INORGANIC, N.O.S.
Proper Shipping Name (RID) : TOXIC SOLID, INORGANIC, N.O.S.
Transport document description (ADR) : UN 3288 TOXIC SOLID, INORGANIC, N.O.S., 6.1, III, (E)
Transport document description (IMDG) : UN 3288 TOXIC SOLID, INORGANIC, N.O.S., 6.1, III
Transport document description (IATA) : UN 3288 Toxic solid, inorganic, n.o.s., 6.1, III
Transport document description (ADN) : UN 3288 TOXIC SOLID, INORGANIC, N.O.S., 6.1, III
Transport document description (RID) : UN 3288 TOXIC SOLID, INORGANIC, N.O.S., 6.1, III
14.3. Transport hazard class(es)
ADR- Transport hazard class(es) (ADR) : 6.1
Danger labels (ADR) : 6.1
IMDG- Transport hazard class(es) (IMDG) : 6.1
Danger labels (IMDG) : 6.1
IATA- Transport hazard class(es) (IATA) : 6.1
Hazard labels (IATA) : 6.1
ADN- Transport hazard class(es) (ADN) : 6.1
Danger labels (ADN) : 6.1
RID- Transport hazard class(es) (RID) : 6.1
Danger labels (RID) : 6.1
14.4. Packing group
Packing group (ADR) : III

Packing group (IMDG) : III
Packing group (IATA) : III
Packing group (ADN) : III
Packing group (RID) : III
14.5. Environmental hazards
Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available
14.6. Special precautions for user
Overland transport- Classification code (ADR) : T5
Special provisions (ADR) : 274
Limited quantities (ADR) : 5kg
Excepted quantities (ADR) : E1
Packing instructions (ADR) : P002, IBC08, LP02, R001
Special packing provisions (ADR) : B3
Mixed packing provisions (ADR) : MP10
Portable tank and bulk container instructions (ADR) : T1
Portable tank and bulk container special provisions (ADR) : TP33
Tank code (ADR) : SGAH, L4BH
Tank special provisions (ADR) : TU15, TE19
Vehicle for tank carriage : AT
Transport category (ADR) : 2
Special provisions for carriage – Bulk (ADR) : VC1, VC2, AP7
Special provisions for carriage - Loading, unloading and handling (ADR) : CV13, CV28
Special provisions for carriage – Operation (ADR) : S9
Hazard identification number (Kemler No.) : 60
Orange plates :
Tunnel restriction code (ADR) : E
EAC code : 2X
Transport by sea- Special provisions (IMDG) : 223, 274
Packing instructions (IMDG) : P002, LP02
IBC packing instructions (IMDG) : IBC08
IBC special provisions (IMDG) : B3
Tank instructions (IMDG) : T1
Tank special provisions (IMDG) : TP33
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-A
Stowage category (IMDG) : A
Properties and observations (IMDG) : Toxic if swallowed, by skin contact or by inhalation.
Air transport- PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y645
PCA limited quantity max net quantity (IATA) : 10kg
PCA packing instructions (IATA) : 670
PCA max net quantity (IATA) : 100kg
CAO packing instructions (IATA) : 677
CAO max net quantity (IATA) : 200kg
Special provisions (IATA) : A3, A5
ERG code (IATA) : 6L
Inland waterway transport- Classification code (ADN) : T5
Special provisions (ADN) : 274, 802
Limited quantities (ADN) : 5 kg
Excepted quantities (ADN) : E1
Equipment required (ADN) : PP, EP
Number of blue cones/lights (ADN) : 0
Rail transport- Classification code (RID) : T5
Special provisions (RID) : 274
Excepted quantities (RID) : E1
Packing instructions (RID) : P002, IBC08, LP02, R001
Special packing provisions (RID) : B3
Mixed packing provisions (RID) : MP10
Portable tank and bulk container instructions (RID) : T1
Portable tank and bulk container special provisions (RID) : TP33
Tank codes for RID tanks (RID) : SGAH, L4BH
Special provisions for RID tanks (RID) : TU15
Transport category (RID) : 2
Special provisions for carriage – Bulk (RID) : VC1, VC2, AP7
Special provisions for carriage - Loading, unloading and handling (RID) : CW13, CW28, CW31
Colis express (express parcels) (RID) : CE11
Hazard identification number (RID) : 60
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
15.1.1. EU-Regulations
No REACH Annex XVII restrictions
CESIUM FLUORIDE is not on the REACH Candidate List
CESIUM FLUORIDE is not on the REACH Annex XIV List
15.1.2. National regulations
Germany
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)
Netherlands
SZW-lijst van kankerverwekkende stoffen : The substance is not listed
SZW-lijst van mutagene stoffen : The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : The substance is not listed
Denmark
Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with the product
The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal
15.2. Chemical safety assessment
No additional information available

16. Other information

Abbreviations and acronyms : PBT: persistent, bioaccumulative and toxic.
vPvB: very persistent and very bioaccumulative
Sources of key data used : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
Further information : None.
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