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Product Name: Potassium fluoride

CAS No.: 7789-23-3

Version: 0

Product Code	:	90213, 90505				
Company Name	:	Advent Chembio Private Limited				
Address		W-288, MIDC, TTC INDUSTRIAL AREA, THANE-BELAPUR ROAD, RABALE, NAVI MUMBAI - 400 701.				
E-mail	:	info@adventchembio.	. <u>com</u>			
WEBSITE	:	www.adventchembio.	<u>com</u>			
Company Phone Number	:	022-27690837				
2. Composition/Information	on Ingr	edients				
Ingredient		CAS No	Percent			
POTASSIUM FLUORIDE		7789-23-3	99- 100%			
3. Hazards Identification						
Acute toxicity (Dermal) Acute toxicity (Inhalation - du mist) Labels elements Hazard symbol	st and	: Category 3 : Category 3				
		<u> </u>	•			
Signal word		: Danger				
Hazard statement		: Toxic if swallow Toxic in contact Toxic if inhaled	t with skin.			
Precautionary statement						
Prevention		protection. Avoi only outdoors of after handling. I	e gloves/protective clothing/eye protection/face id breathing dust/fume/gas/mist/vapors/spray. Use r in a well-ventilated area. Wash hands thoroughly Do not eat, drink or smoke when using this product.			
Response		CENTER or doo immediately all INHALED: Rer comfortable for	Vash with plenty of soap and water. Call a POISON ctor/physician if you feel unwell. Take off contaminated clothing and wash it before reuse. IF move victim to fresh air and keep at rest in a position breathing. Call a POISON CENTER or n. IF SWALLOWED: Immediately call a POISON			

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Storage:	: Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal	: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Other hazards which do not result in GHS classification	: None.
4. First Aid Measures	
General information	: Get medical advice/attention if you feel unwell. If medical advice is needed, have product container or label at hand. Show this safety data sheet to the doctor in attendance.
Ingestion	: Rinse mouth. Call a physician or poison control center immediately. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Inhalation	 Move to fresh air. Apply artificial respiration if victim is not breathing If breathing is difficult, give oxygen. Get medical attention.
Skin contact	: Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician or poison control center immediately. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.
Eye contact	 Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention

Most important symptoms/effects, : acute and delayed Indication of immediate medical : attention and special treatment needed

: Treat symptomatically. Symptoms may be delayed.

Irritating to eyes, respiratory system and skin.

immediately.



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5. Fire fighting measures	
General fire hazards	: In case of fire and/or explosion do not breathe fumes.
Suitable (and unsuitable) extinguisl	ning media
Suitable extinguishing media	: Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: Fire may produce irritating, corrosive and/or toxic gases.
Special protective equipment and p	recautions for firefighters
Special fire fighting procedures	: Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Cool containers exposed to flames with water until well after the fire is out.
Special protective equipment for fire-fighters	: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Personal precautions, protective	:	Keep unauthorized personnel away. Use personal protective
equipment and emergency		equipment. Ventilate closed spaces before entering them. Do not
procedures		touch damaged containers or spilled material unless wearing
		appropriate protective clothing.
Methods and material for	:	Sweep up and place in a clearly labeled container for chemical
containment and cleaning up		waste. Clean surface thoroughly to remove residual contamination.
		Dike far ahead of larger spill for later recovery and disposal.
Notification Procedures	:	Dike for later disposal. Prevent entry into waterways, sewer,
		basements or confined areas. Stop the flow of material, if this is
		without risk. Inform authorities if large amounts are involved.
Environmental precautions	:	Do not contaminate water sources or sewer. Prevent further leakage
-		or spillage if safe to do so. Avoid discharge into drains, water
		courses or onto the ground.



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7. Handling and Storage		
Precautions for safe handling	:	Use personal protective equipment as required. Do not breathe mist or vapor. Do not taste or swallow. Do not eat, drink or smoke when using the product. Use only with adequate ventilation. Wash hands thoroughly after handling. Avoid contact with eyes. Avoid contact with skin.
		Avoid breathing dust/fume/gas/mist/vapors/spray. Wear protective gloves/protective clothing/eye protection/face protection.
Conditions for safe storage, including any incompatibilities	:	Do not store in metal containers. Keep in a cool, well-ventilated place. Store in a dry place. Keep container tightly closed. Store locked up.

8. Exposure Controls Personal Protection

Control parameters Occupational exposure limits

Occupational exposure in	mus		
Chemical identity	Туре	Exposure Limit values	Source
POTASSIUM	TWA	2.5 mg/m3	US. ACGIH Threshold Limit Values (2011)
FLUORIDE - as F		_	
	REL	2.5 mg/m3	US. NIOSH: Pocket Guide to Chemical
			Hazards (2010)
	PEL	2.5 mg/m3	US. OSHA Table Z-1 Limits for Air
			Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	2.5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000)
			1989)
POTASSIUM	TWA	2.5 mg/m3	US. OSHA Table Z-2 (29 CFR 1910.1000) (02
FLUORIDE - Dust.			2006)
Biological limit values			
Chemical identity	Exposure	Limit values	Source
POTASSIUM	2 mg/l (Ur	ine)	ACGIH BEL (03 2012)
FLUORIDE (Fluoride:			
Sampling time: Prior to			
shift.)			
POTASSIUM	3 mg/l (Ur	ine)	ACGIH BEL (03 2012)
FLUORIDE (Fluoride:			
Sampling time: End of			
shift.)			

Appropriate engineering controls : No data available.

Individual protection measures, such as personal protective equipment

General information :		No data available.
Eye/face protection :	:	Wear safety glasses with side shields (or goggles) and a face shield.
Hand protection :	:	Chemical resistant gloves.



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Other	: Wear suitable protective clothing and gloves.
Respiratory protection	: In case of inadequate ventilation use suitable respirator.
Hygiene measures	: Provide eyewash station and safety shower. Observe good industrial
	hygiene practices. Wash hands before breaks and immediately after
	handling the product. Wash contaminated clothing before reuse.

9. Physical and Chemical Properties

Appearance	:	White Solid Powder
Odor	:	Odorless
рН	:	No data available.
Melting point/freezing point	:	860 °C
Initial boiling point and boiling	:	1,505 °C
range		
Flash Point	:	No data available
Vapor pressure	:	0.13 kPa (885 °C)
Vapor density	:	No data available
Relative density	:	2.48 (20 °C)
Solubility in water	:	Appreciable
Solubility (other)	:	No data available.
Formula	:	FK
Molecular Weight	:	58.10 g/mol

10. Stability and Reactivity

Reactivity Chemical stability Possibility of hazardous reactions Conditions to avoid Incompatible materials Hazardous decomposition products	: :	No dangerous reaction known under conditions of normal use. Stable; however, may decompose if heated. Hazardous polymerization does not occur. Moisture. Contact with incompatible materials. Strong oxidizing agents. Acids. Bromides. Metals. Hydrogen fluoride .
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11. Toxicological Information

Information on likely routes of exposure				
Ingestion	:	Toxic if swallowed.		
Inhalation Skin contact Eye contact	::	Toxic if inhaled. Toxic in contact with skin. Causes skin irritation. Causes eye irritation.		
Information on toxicological effects				



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Acute toxicity (list all possible route	s of exposure)
Oral Product	: LD 50 (Rat): 245 mg/kg
Dermal Product	: No data available.
Inhalation Product Repeated dose toxicity Product Skin corrosion/irritation Product	 No data available No data available. Toxic in contact with skin. Causes skin irritation.
Serious eye damage/eye irritation	: Causes eye irritation.
Product Respiratory or skin sensitization Product	: Not a skin sensitizer.
Carcinogenicity Product IARC Monographs on the	This substance has no evidence of carcinogenic properties.No carcinogenic components identified.
Evaluation of Carcinogenic Risks to Humans DIOXANE	
US. National Toxicology Program (NTP) Report on Carcinogens DIOXANE	: No carcinogenic components identified.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001- 1050	: No carcinogenic components identified.
Germ cell mutagenicity	
In vitro Product	: No mutagenic components identified.
In vivo Product	: No mutagenic components identified.
Reproductive toxicity Product	: No components toxic to reproduction.
Specific target organ toxicity -	: No data available.
single exposure Product	
Specific target organ toxicity -	: No data available.
repeated exposure Product	
Aspiration hazard Product	: Not classified
Other effects	: None known.

12. Ecological Information

Ecotoxicity						
Acute hazards to the aquatic environment :						
Fish Product	: No data available.					
Aquatic invertebrates Product	: No data available.					
Chronic hazards to the aquatic environment :						
Fish Product	: No data available.					
Aquatic invertebrates Product	: No data available.					
Toxicity to Aquatic Plants Product:	: No data available.					
Persistence and degradability						
Biodegradation Product	: There are no data on the degradability of this product.					
BOD/COD ratio Product	: No data available.					
Bioaccumulative potential						
-						

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Bioconcentration factor (BCF) Product	: No data available on bioaccumulation.				
Partition coefficient n-octanol / water (log Kow) Product	: No data available.				
Mobility in soil	: The product is water soluble and may spread in water systems.				
Other adverse effects	: The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.				
13. Disposal consideration					
Disposal instructions	: Discharge, treatment, or disposal may be subject to national, state, or local laws. Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws				
Contaminated packaging	 and regulations, and product characteristics at time of disposal. Since emptied containers retain product residue, follow label warnings even after container is emptied. 				

14. Transport information

	UN No.	UN proper shipping name	Hazard	Packaging	Marine Pollutant
			Class(es)	group	
DOT	UN 1812	Potassium fluoride, solid	6.1	III	No
IMDG	UN 1812	Potassium fluoride, solid	6.1	III	No
IATA	UN 1812	Potassium fluoride, solid	6.1	III	No

15. Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture No Data Available.



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16. Other Information

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

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