GHS Safety Data Sheet

SDS No. : CRH01XAEG

Date Issued: 2018/02/07

Section 1. Identification of the substance or mixture and of the supplier

1.1 Product Information

Product name: CrF₃·xH₂O Chromium trifluoride, hydrous

-	Product number	Purity	Form
	CRH07XB	99%(2N)	solid

1.2 Company Information:

Manufacturer: Kojundo Chemical Laboratory Co., Ltd.

1-28, 5-chome, Chiyoda, Sakado-shi, Saitama Japan 350-0284

Phone: +81-49-284-1511 Fax: +81-49-284-1351

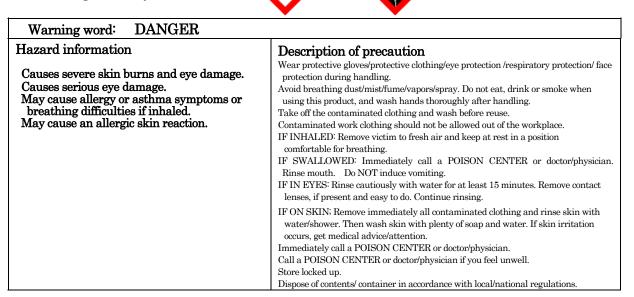
Emergency Phone : +81-49-284-1511

Section 2. Hazards identification

GHS Classification

Health Hazards	Environmental Hazards	Physical Hazards	
Skin corrosion/ irritation : Category 1 Serious eye damage/ eye irritation : Category 1 Respiratory sensitization : Category 1 Skin sensitization : Category 1	No data available	Flammable solids : Not classified Pyrophoric solids : Not classified Self-heating substances and mixtures : Not classified Substances and mixtures which, in contact with water, emit flammable gases : Not classified	
GHS Label: R,C			

Pictograms or symbols



Additional hazard information : With respect to additional hazard information, see Section 11.

Section 3. Composition / information on ingredients

Chemical or common name:	Chromium (III) fluoride, hydrate
Chemical formula:	CrF ₃ ·xH ₂ O
Single Substance or Mixture:	Single substance
Composition:	100%
CAS#:	123333-98-2 (3.5H ₂ O:68886-78-2)
RTECS#:	GB6125000 (anhydrate)
TSCA inventory :	listed (anhydrate)
EINECS:	2321379 (anhydrate)

Section 4. First aid measures

Eye contact:	Promptly rinse eyes with plenty of water while lifting the eye lids. Continue to		
	rinse for at least 15 minutes and get medical attention.		
Skin contact:	Remove immediately all contaminated clothing. Wipe off the product immediately		
	by tissue or soft cloth, etc. Promptly flush contaminated skin with soap or mild		
	detergent and water. Contact physician if irritation continues.		
Ingestion:	Rinse mouth and throat with water. Get medical attention immediately.		
Inhalation:	Remove the exposed person immediately and provide fresh air.		
	Get medical attention.		

Section 5. Fire fighting measures

Extinguishing media:	The product is not combustible. Use media appropriate for surrounding fire.
Fire fighting:	In case of fire, the product may liberate toxic gases.
	Self-contained breathing apparatus and full protective clothing should be used, if this product is involved in fire.

Section 6. Accidental release measures		
Personal Precautions:	Workers should use protective wears to prevent contact with the spilt adhesive and inhalation of its vapor/dusts.	
Environmental hazard precautions:	Shut off leak if without risk.	
	Prevent flow out to river, etc. so as not to badly affect.	
Method for containment and		
cleaning up:	Indoor leakage: Ventilate as much as possible until the cleaning is completed.	
	Outdoor leakage: Work from the windward and evacuate the	
	leeward crowd.	
	Gather up, pack in closed container as much as possible.	
	Carefully collect remnant and move to a safe place.	

Section 7. Handling and storage

Precautions to be taken in handling:

Safe handling:	Use protective wears and local ventilation equipment, if inhalation or skin
	contact is foreseen.
Precautions to be take	n in storage:
General precautions:	Store the material in a sealed container.
	Store in a cool, dry, well ventilated and dark place away from incompatible
	materials.

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Exposure guideline:					
Chemical	Name	ACGIH(2013		OSHA(2006)PE	
Chromium(III) com		TWA(mg/m ³)	(mg/m ³)	
Fluorides		0.5 2.5		0.5 2.5	
Fluorides	as r)	2.0		2.0	
inhalation. Protective ware: Wear appropriate		on of closed work room ate NIOSH/MSHA-app oves, protective wear, p	proved resp	pirator, safety go	-
Section 9. Phys	ical and chem	nical properties			
Color and Form:	Green solid				
Chemical formula:	$CrF_3 \cdot 3.5H_2O$				
Formula weight:	172.0				
Melting point:	1100 ℃ (anhy	drate)			
Boiling point:	$1100 \sim 1200$	°C (anhydrate)			
Density:	2.2 g/cm³ (3H ₂ O)				
Water solubility:	Soluble				
Flammable:	Non-flammable	9			
Oxidation:	None				
Section 10. Sta	bility and read	ctivity			
Stability:	Stable in clos	ed container at room	temperatu	ure.	
Reactivity:					
Incompatibility;	Oxidizing age	nts			
Conditions to avoid;	No data availa	able			
Section 11. Tox	icological info	rmation			
Acute toxicity:	Gl	HS : No data available	•		
Skin corrosive / irritati	on: Gl	HS : Category 1 ; Caus	ses severe s	skin burns and e	ye damage
Serious eye damage / iı	rritation: Gl	GHS : Category 1 ; Causes serious eye damage			
Respiratory sensitizati	on: Gl	HS : Category 1 ; May brea		rgy or asthma sy iculties if inhaled	
Skin sensitization:	Gl	HS: Category 1; May	_		
Germ cell mutagenicity:		HS : No data available	•		
Carcinogenicity:		HS : No data available			
	Ca	arcinogenicity:			
		Ingredients	ACGIH (2013)	IARC (2017)	NTP (2016)
		Chromium(III) compounds	A4	G3	
		Fluorides	A4		
	AC	GIH A4 Not classifiable as a RC G3 The agent is not class			ans
				,	ario.

Section 8. Exposure controls / personal protection

Reproductive toxicity: Specific target organ toxicity —single exposure:

GHS : No data available

Specific target organ toxicity	
-repeated exposure:	0

-repeated exposure	.
Aspiration hazard:	

GHS : No data available GHS : No data available

Section 12. Ecological information

Ecotoxicity:

Hazardous to the aquatic environment

	-acute toxicity:	GHS; No data available
	-chronic toxicity:	GHS ; No data available
Hazardous the ozone	e layer:	GHS ; No data available
		No Freon or Halon
Fish toxicity:		No data available
Degradability:		No data available
Bioaccumulative pot	ential:	No data available

Section 13. Disposal considerations

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Disposal method:
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User of the product should contract with the local government or licensed 'Industrial Waste Haulers' for disposal of waste.

Section 14. Transport information

UN number:	1756
IATA shipping name:	CHROMIC FLUORIDE, SOLID
IATA classification:	Hazardous Class 8 (Corrosive substances)
IATA packing group:	Π
HS code:	2826.19
Marine pollution:	None

Section 15. Regulatory information

TSCA inventory : listed

Please refer to any other local / national measures that may be relevant.

Section 16. Other information

The information described above is believed to be correct. However, Kojundo Chemical Lab. makes no representation, warranty nor guarantee of any kind with respect to the information on this data sheet or any use of the product based upon this information.