

4. First Aid measures

Eyes	Irritation with plenty of water for 15 minutes. In all cases of eye contamination it is advisable to seek medical advice
Skin	Wash skin with plenty of water. If irritation persists seek medical advice.
Inhalation	Not consider a feature of normal use. If irritation remove to fresh air. If irritation persists seek medical advice.
Ingestion	Rinse mouth with water. Give water to drink . Do Not induce vomiting. Seek medical advice. Treat symptomatically as for strong acid.

5. Fire Fighting Measures

Special Hazards	Non- Combustible.
Extinguishing Media	This product is non -flammable and for fire in the surrounding use the appropriate extinguishing method for the area. The product is highly acidic, avoid contact with metals to release hydrogen gas and cause explosion.
Protective Equipment	Self -contained breathing apparatus.

6. Accidental Release Measures

Spillage Cleanup	Wash with plenty of water. Contain the spillage and absorb with sand and earth.
Personal Precaution	Turn leak side up to prevent further leakage.
Environmental	Do not discharge into the drain . Contain the spillage by using bunding . Seek authority for advice.

7. Handling And storage

Handling Requirement	Avoid direct contact with eye and skin. Always follow industrial safety practices.
Storage Condition	Store in cool and dry place and keep container closed.
Suitable Packaging others	Must only keep in original container. Refer to State Regulation for storage and transportation requirements.

8. Exposure Controls

Work place Exposure Limits

Oxalic acid dihydrate	OSHA PEL :5ppm (TWA) TLV:2 ppm (TWA)
Hydrofluoric acid	OSHA PEL: 3ppm (TWA) TLV :0.5ppm(TWA)
Engineering Measures	Must have well ventilated area to remove HCL & HF vapour.
Respiratory protection	Self -contained braething apparatus must be available.
Eye protection	Wear safety glasses , face shield , viton rubber glove and impervious apparel. Avoid direct skin and eyes contact.

9. Physical And Chemical properties

Apperance	clear Liquid
Colour	Colourless
Odour	Fragrance smell
PH	3 to 4
Boiling Point	NA
Flash Point	NA
Specific Gravity	1.02
Vapour Pressure	NA
Solubility in water	Soluble

10. Stability And Reactivity

Stability	Stable at room temperature
Condition to Avoid	Do no mix with other chemical.
Hazardous Decomposition of Product	Heated may liberate hydrogen chloride and hydrogen fluoride gases.

11. Toxicological information

Toxicity Data	As Oxalic acid dihydrate : Oral rabbit LD50 :900mg / kg
	As Hydrofluoric :IHL HMN LCLD : 50ppm/30min

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