AK Scientific, Inc.

Safety Data Sheet (United States) Iron(3+) trifluoride trihydrate

1.Identification	
Product name:	Iron(3+) trifluoride trihydrate
Catalog#:	4200DF
IUPAC name:	iron(3+);trifluoride;trihydrate
Product use restrictions:	Only for research and development use by, or directly under the supervision
	of, a technically qualified individual.
Company:	AK Scientific, Inc.
	30023 Ahern Ave.
	Union City, CA 94587
Telephone:	(510) 429-8835
Fax:	(510) 429-8836
Website:	www.aksci.com
Emergency contact number	: 1-800-633-8253 United States & Canada
	1-801-629-0667 International

2.Hazard Identification:

GHS Classification (United States)

Acute oral toxicityCategory 4Acute dermal toxicity(Category 4) Acute Inhalation Toxicity - Dusts and Mists(Category) Skin Corrosion/Irritation(Category 1 B) Serious Eye Damage/Eye Irritation(Category 1) Specific target organ toxicity (single exposure)(Category 3) Target Organs - Respiratory system

Pictogram(s)



Signal word:

Danger

Hazard statement(s)

H301	T	oxic if swallowed.
H311	T	oxic in contact with skin.
H332	Н	armful if inhaled.
H314	C	auses severe skin burns and eye damage.
H318	C	auses serious eye damage.

Precautionary statement(s):

P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P301+P303+P361+P353	-
	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	Store locked up.
P501	Dispose of contents/container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS:

none

3.Composition/Information on Ingredients Synonyms: iron(3+) trifluoride trihydrate;ACMC-20akpl;CTK8C5604;DTXSID00660183;SBB088043 CAS#: 15469-38-2 Purity: 98%

EC: Not available.

4. First Aid Measures

General Information: Immediately remove any clothing contaminated by the product. Move out of dangerous area. Consult a physician and show this safety data sheet.

Inhalation: Move person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical aid.

Skin contact: Immediately flush skin with running water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Obtain medical aid immediately.

Eye contact: Immediately flush open eyes with running water for at least 15 minutes. Obtain medical aid immediately.

Ingestion: Do NOT induce vomiting without medical advice. Rinse mouth with water. Never administer anything by mouth to an unconscious person. Obtain medical aid immediately.

Most important symptoms and effects, both acute and delayed: No further information available. Please see sections 2 and 11.

Indication of any immediate medical attention and special treatment needed: No further information available.

5. Fire Fighting Measures

Suitable extinguishing media: Use water spray, dry chemical, carbon dioxide, or chemical foam. Specific hazards arising from the chemical: Iron oxides, Hydrogen fluoride.

Advice for firefighters: As in any fire, wear a NIOSH-approved or equivalent, pressure-demand, self-contained breathing apparatus and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Wear protective equipment and keep unprotected personnel away. Ensure adequate ventilation. Remove all sources of ignition. Prevent further leak or spill if safe to do so. For personal protective equipment, please refer to section 8.

Environmental precautions: Do not let product enter drains, other waterways, or soil.

Methods and materials for containment and cleaning up: Prevent further leak or spill if safe to do so. Vacuum, sweep up, or absorb with inert material and place into a suitable disposal container. Consult local regulations for disposal. See section 13 for further disposal information.

7. Handling and Storage

Precautions for safe handling: Avoid contact with skin, eyes, and personal clothing. Wash hands thoroughly after handling. Avoid breathing fumes. Use only with adequate ventilation. Wear suitable protective clothing, gloves, and eye/face protection. Keep away from sources of ignition. Minimize dust generation and accumulation. Keep container tightly closed. Open and handle container with care. Do not eat, drink, or smoke while handling.

Conditions for safe storage, including any incompatibilities: Store in a tightly-closed container when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from sources of ignition. ,Store long-term in a cool, dry place.

8. Exposure Controls/Personal Protection

Exposure limits:

OSHA PEL:	Not available.
NIOSH REL:	Not available.
ACGIH TLV:	Not available.

Appropriate engineering controls: Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product. Facilities storing or utilizing this material should be equipped with an eyewash fountain. Use adequate general and local exhaust ventilation to keep airborne concentrations low.

Not Available.

Not Available.

Not Available.

Not Available.

Personal protection Eyes: Hands: Skin and body: Respiratory: 9. Physical and Chemical Properties

s. Thysical and onemical Troperties	
Physical State:	Solid
Molecular Formula:	FeF3•3H2O
Molecular Weight:	166.89 (112.84anhy)
Odor:	Not available.
pH:	Not available.
Boiling Point Range:	Not available.
Freezing/Melting Point:	Not available.
Flash Point:	Not available.
Evaporation Rate:	Not available.
Flammability(solid,gas):	Please see section 2.
Explosive limits:	Not available.
Vapor Pressure:	Not available.
Vapor Density:	Not available.
Solubility:	Not available.
Relative Density:	Not available.
Refractive Index:	Not available.
Volatility:	Not available.
Auto-ignition Temperature:	Not available.
Decomposition Temperature:	Not available.
Partition Coefficient:	Not available.

10. Stability and Reactivity

Reactivity:
Chemical stability:
Possibility of hazardous reactions:
Conditions to avoid:
Incompatible materials:
Hazardous decomposition products:

Not available. Stable under recommended temperatures and pressures. Not available. Dust generation. Strong oxidizing agents. Iron oxides, Hydrogen fluoride.

Not available.

11. Toxicological Information

RTECS# Acute toxicity: Routes of exposure: Symptoms related to the physical,chemical and toxicological characteristics:

Not available. Inhalation,eye contact,skin contact,ingestion. Skin contact may result in inflammation characterized by itching, scaling, reddening, blistering, pain or dryness. Eye contact may result in redness, pain or severe eye damage. Inhalation may cause irritation of the lungs and respiratory system. Overexposure may result in serious illness or death. Iron(3+) trifluoride trihydrate

Carcinogenicity

IARC:	Not classified.
NTP:	Not listed.
OSHA:	Not Available
Acute toxic effects:	Inflammation of the eye is characterized by redness, watering, and itching. Skin
	inflammation is characterized by itching, scaling, reddening, or, occasionally,
	blistering.

12. Ecological Information				
Ecotoxicity:	Not availabl			
Persistence and degradabil				
Bioaccumulative potential: Mobility in soil:	: Not availabl Not availabl			
Other adverse effects:	Not availabl			
13. Disposal Considera	ations Not listed			
Disposal of waste: Disposal of packaging:	Not listed			
14. Transportation Info	ormation			
DOT (United States)				
UN number:	UN3260	n(2)) trifly or do triby droto)		
Proper shipping name: Transport hazard class:	Corrosive solid, acidic, inorganic, n.o.s. (Iron(3+) trifluoride trihydrate) 8;Corrosive			
Packing group:	II			
IATA				
UN Number:	UN3260			
Proper shipping name:	Corrosive solid, acidic, inorganic, n.o.s. (Iros	Corrosive solid, acidic, inorganic, n.o.s. (Iron(3+) trifluoride trihydrate)		
Transport hazard class:	8;Corrosive			
Packing group:	II			
15. Regulatory Informa	ation			
TSCA (United States)				
Not Available.				
California Proposition 65:	Not Available			
NFPA Rating:	Health:	Not available.		
	Flammability:	Not available.		
	Instability:	Not available.		

16. Additional Information

Revision Date: 08/14/2021 Printed Date: 08/14/2021

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 AK Scientific 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 AK Scientific has been advised of the possibility of such damages.