

Material Safety Data Sheet Manganese(III) fluoride, 99%

MSDS# 95606

Section 1 - Chemical Product and Company Identification

MSDS Name: Manganese(III) fluoride, 99%

Catalog Numbers: AC299740000, AC299740100, AC299740500

Synonyms: Manganese trifluoride; Manganic fluoride.

Acros Organics BVBA Company Identification:

Janssen Pharmaceuticalaan 3a

2440 Geel, Belgium

Acros Organics Company Identification: (USA) One Reagent Lane

Fair Lawn, NJ 07410

For information in the US, call: 800-ACROS-01 For information in Europe, call: +32 14 57 52 11 Emergency Number, Europe: +32 14 57 52 99 **Emergency Number US:** 201-796-7100

CHEMTREC Phone Number, US: 800-424-9300 CHEMTREC Phone Number, Europe: 703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#: 7783-53-1

Chemical Name: Manganese(III) fluoride

%:

EINECS#: 232-006-6

Hazard Symbols: XI



Risk Phrases: 36/37/38

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Warning! Moisture sensitive. Causes eye, skin, and respiratory tract irritation. Target Organs: Central nervous system, lungs, reproductive system.

Potential Health Effects

Chronic:

Eye: Causes eye irritation.

Skin: Causes skin irritation. Prolonged contact with the skin, especially if the skin is wet or moist, causes necrosis.

Ingestion: May cause irritation of the digestive tract.

Inhalation: Causes respiratory tract irritation.

Chronic inhalation or ingestion may result in manganism characterized by neurological symptoms such as

headache, apathy, and weakness of the legs, followed by psychosis and neurological symptoms similar to those

of Parkinson's disease. May impair fertility. Other chronic effects from inhaling high amounts of manganese

include an increased incidence of cough and bronchitis and susceptibility to infectious lung disease.

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Eyes:

Get medical aid immediately.

Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated Skin.

clothing and shoes.

Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid Ingestion:

immediately.

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. Get Inhalation:

medical aid.

Notes to Physician:

Section 5 - Fire Fighting Measures

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH General Information:

(approved or equivalent), and full protective gear.

Extinguishing Media: Use foam, dry chemical, or carbon dioxide.

Autoignition Not available.

Temperature:

Flash Point: Not available

Explosion Limits: Not available Lower:

Explosion Limits: Not available Upper:

NFPA Rating: health: 2; flammability: 0; instability: 1;

Section 6 - Accidental Release Measures

General

Spills/Leaks:

Use proper personal protective equipment as indicated in Section 8. Information:

Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty

conditions. Provide ventilation. Do not expose spill to water. Do not get water inside containers.

Section 7 - Handling and Storage

Handling: Use with adequate ventilation. Keep container tightly closed. Do not get on skin or in eyes. Avoid ingestion and inhalation.

Storage: Store in a cool, dry place. Store in a tightly closed container. Store protected from moisture.

Section 8 - Exposure Controls, Personal Protection

Chemical Name	+	+	++
	ACGIH	NIOSH	OSHA - Final PELs
Manganese(III) fluo ride 	0.2 mg/m3 TWA (as Mn) (listed under Manganese, inorganic compounds).	Mn) (listed under Manganese compounds,	5 mg/m3 Ceiling (as Mn) (listed under Manganese compounds, n.o.s.).

OSHA Vacated PELs: Manganese(III) fluoride: None listed

Engineering Controls:

Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Exposure Limits

Personal Protective Equipment

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face

Eyes:

protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a

Respirators: NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if

irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Crystals

Color: red-purple
Odor: Not available

pH: Not available

Vapor Pressure: Not available Vapor Density: Not available Evaporation Rate: Not available

Viscosity: Not available Boiling Point: Not available

Freezing/Melting Point: Not available Decomposition Temperature: Not available

Solubility in water: Hydrolysis.

Specific Gravity/Density: 3.54 Molecular Formula: F3Mn Molecular Weight: 111.93

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Moisture, excess heat.

Incompatibilities with Other Materials Water, strong reducing agents, strong bases, combustible organics, organic matter.

Hazardous Decomposition Products Fluoride fumes, oxides of manganese.

Hazardous Polymerization Has not been reported.

Section 11 - Toxicological Information

RTECS#: CAS# 7783-53-1: OP0882600

RTECS:

LD50/LC50: CAS# 7783-53-1: Inhalation, mouse: LC50 = 320 mg/m3;

Oral, mouse: LD50 = 86 mg/kg;

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Carcinogenicity: Manganese(III) fluoride - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other: See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Not available

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

US DOT

Shipping Name: Not regulated

Hazard Class: UN Number: Packing Group: Canada TDG

Shipping Name: Not available

Hazard Class: UN Number: Packing Group:

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XI

Risk Phrases:

R 36/37/38 Irritating to eyes, respiratory system and skin.

Safety Phrases:

S 22 Do not breathe dust.

S 24/25 Avoid contact with skin and eyes.

S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

WGK (Water Danger/Protection)

CAS# 7783-53-1: Not available

Canada

CAS# 7783-53-1 is listed on Canada's NDSL List

Canadian WHMIS Classifications: D1B

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 7783-53-1 is not listed on Canada's Ingredient Disclosure List.

US Federal

TSCA

CAS# 7783-53-1 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date: 1/27/1998 Revision #5 Date 7/20/2009

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility 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 the company 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 the company has been advised of the possibility of such damages.
