

Material Safety Data Sheet Zinc fluoride

MSDS# 04642 Section 1 - Chemical Product and Company Identification MSDS Name: Zinc fluoride Catalog AC194920000, AC194920250, AC194922500, AC363910000, AC363910250, AC363912500 Numbers: AC363912500 Synonyms: Zinc difluoride. Acros Organics BVBA Janssen Pharmaceuticalaan 3a Company Identification: 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#:	7783-49-5
Chemical Name:	Zinc fluoride
%:	>98
EINECS#:	232-001-9

Hazard Symbols:



Risk Phrases:

36/37/38

XI

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Warning! Causes eye, skin, and respiratory tract irritation. Target Organs: Respiratory system, skeletal structures, eyes,

skin.

Potential Health Effects

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Eye:	('allses eve	irritation Ma	y cause eye burns.
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- Skin: Causes skin irritation. May be harmful if absorbed through the skin.
- Ingestion: May cause irritation of the digestive tract. May be harmful if swallowed.
- Inhalation: Causes respiratory tract irritation. May be harmful if inhaled.
- Chronic: Chronic inhalation and ingestion may cause chronic fluoride poisoning (fluorosis) characterized by weight loss, weakness, anemia, brittle bones, and stiff joints.

Section 4 - First Aid Measures

Eyes:	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.		
Skin:	Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.		
Ingestion:	Get medical aid. Wash mouth out with water.		
Inhalation:	Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.		
Notes to Physician:	Treat symptomatically and supportively.		
	Section 5 - Fire Fighting Measures		
General Information:	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Substance is noncombustible.		
Extinguishing Media:	Use extinguishing media most appropriate for the surrounding fire.		
Autoigr Tempera	nition ture:		
	oint: Not available		
	mits: wer:		
Explosion Li Uj	mits: oper:		
NFPA Rating: NFPA Rating:			
	Section 6 - Accidental Release Measures		
General Information:	Use proper personal protective equipment as indicated in Section 8.		
Spills/Leaks:	Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Provide ventilation.		
Section 7 - Handling and Storage			

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate Handling: ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid breathing dust and fume.

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

Section 8 -	Exposure	Controls,	Personal	Protection
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Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
/ Zinc fluoride 		(inorganic solids, as F, listed under sodium fluoride)	<pre> 2.5 mg/m3 TWA (as dust) (listed under Fluorides).2.5 mg/m3 TWA (as F) (listed under Fluorides). </pre>

OSHA Vacated PELs: Zinc fluoride: 2.5 mg/m3 TWA (listed under Fluorides)

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits

Personal Protective Equipment

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

Color: white

Odor: odorless

pH: Not available

Vapor Pressure: Not available

Vapor Density: Not available

Evaporation Rate: Not available

Viscosity: Not available

Boiling Point: 1500 deg C (2,732.00°F)

Freezing/Melting Point: 872 - 910 deg C

Decomposition Temperature: Not available

Solubility in water: Negligible

Specific Gravity/Density: 5.00

Molecular Formula: F2Zn

Molecular Weight: 103.38

Section 10 - Stability and Reactivity

Chemical Stability: Conditions to Avoid: Incompatibilities with Other Materials Hazardous Decomposition Products Hazardous Polymerization Stable. Dust generation. Potassium. Hydrogen fluoride gas. Will not occur.

Section 11 - Toxicological Information

RTECS#: CAS# 7783-49-5: ZH3500000

LD50/LC50: RTECS: Not available.

Carcinogenicity: Zinc fluoride - IARC: Group 3 (not classifiable) (Fluorides, inorganic).

Other: The toxicological properties have not been fully investigated. 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 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 37/39 Wear suitable gloves and eye/face protection.

WGK (Water Danger/Protection)

CAS# 7783-49-5: Not available

Canada

CAS# 7783-49-5 is listed on Canada's DSL List

Canadian WHMIS Classifications: Not available

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# 7783-49-5 is listed on Canada's Ingredient Disclosure List

US Federal

TSCA

CAS# 7783-49-5 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date: 1/16/2002 Revision #3 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.
