F Fisher Scientific

Material Safety Data Sheet Zinc Nitrate Hexahydrate

MSDS# 25470

	Section 1 - Chemical Product and Company Identification
MSDS Name:	Zinc Nitrate Hexahydrate
Catalog Numbers:	S80248, S80248-1, S80248-3, S80248-2, Z45-500
Synonyms:	Nitric Acid, Zinc Salt, Hexahydrate
	Fisher Scientific

Company Identification:	One Reagent Lane	
	Fair Lawn, NJ 07410	
For information in the US, call:	201-796-7100	
Emergency Number US:	201-796-7100	
CHEMTREC Phone Number, US:	800-424-9300	

Section 2 - Composition, Information on Ingredients

CAS#:
Chemical Name:
%:
EINECS#:

10196-18-6 Zinc Nitrate Hexahydrate 100 unlisted

Hazard Symbols:



Risk Phrases:

unlisted XN O



22 36/38 8

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Danger! Strong oxidizer. Contact with other material may cause a fire. Hygroscopic (absorbs moisture from the air). Harmful if swallowed. Causes eye and skin irritation. Target Organs: Eyes, skin.

Potential Health Effects

Eye:	Causes eye irritation.
Skin:	Causes skin irritation. May be harmful if absorbed through the skin.
Ingestion:	Harmful if swallowed. May cause irritation of the digestive tract.
Inhalation:	May cause respiratory tract irritation. May be harmful if inhaled.
Chronic:	No information found.
	Section 4 - First Aid Measures
Eyes:	Immediately 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. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Ingestion:	Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid if irritation or symptoms occur.
Inhalation:	Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Get medical aid. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Notes to Physician:

Section 5 - Fire Fighting Measures

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH General (approved or equivalent), and full protective gear. Strong oxidizer. Contact with other material may Information: cause fire.

Extinguishing Use water spray, dry chemical, carbon dioxide, or chemical foam.

Media:

Autoignition Temperature: Not applicable.

Flash Point: Not applicable.

Explosion Limits: Lower: Not available

Explosion Limits: Upper: Not available

NFPA Rating: ; instability: OX

Section 6 - Accidental Release Measures

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

Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then Spills/Leaks: place into a suitable container for disposal. Avoid generating dusty conditions. Provide ventilation.

Section 7 - Handling and Storage

Handling: Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

Storage: Do not store near combustible materials. Store in a cool, dry place. Store in a tightly closed container.

Section 8 - Exposure Controls, Personal Protection

+ Chemical Name	+	NIOSH	OSHA - Final PELs
Zinc Nitrate Hexahy none listed drate		none listed	none listed

OSHA Vacated PELs: Zinc Nitrate Hexahydrate: None listed

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

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 gloves to prevent skin exposure.

Clothing: Wear a chemical apron. Wear appropriate clothing to prevent skin exposure.

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or **Respirators:** European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Section 9 - Physical and Chemical Properties

Physical State: Crystals Color: white Odor: odorless pH: 5.1 in 5% solution. Vapor Pressure: Not available

Vapor Density: 10.3

Evaporation Rate: Not available

		Viscosity: Not available		
		Boiling Point: Not applicable.		
	Freezing/Melting Point: 36.4 deg C (97.52°F)			
		osition Temperature:		
	r. r	Solubility in water: Soluble in water.		
	Spe	cific Gravity/Density: 2.065		
	1	Molecular Formula: Zn(NO3)2 .6H2O		
		Molecular Weight: 297.4702		
		Section 10 - Stability and Reactivity		
Chemical Stabilit	y:	Hygroscopic: absorbs moisture or water from the air.		
Conditions to Avoid:		Incompatible materials, dust generation, combustible materials, moist air.		
Incompatibilities with Other Materials		Strong reducing agents.		
Hazardous Deco	mposition Products	Nitrogen oxides.		
Hazardous Polyn	nerization	Will not occur.		
		Section 11 - Toxicological Information		
RTECS#:	CAS# 10196-18-6: Z	EH4775000		
	RTECS:			
	CAS# 10196-18-6: D	raize test, rabbit, eye: 20 mg/24H Moderate;		
LD50/LC50:		n: 500 mg/24H Severe;		
	Oral, mouse: LD50 = 9 Oral, rat: LD50 = 1190			
	01al, 1al. LD30 – 119	o mg/kg,		
Carcinogenicity:	Zinc Nitrate Hexahydr	ate - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.		
Epidemiology:	Not available			
Teratogenicity:	Not available			
Reproductive:	Not available			
Neurotoxicity:	Not available			
Mutagenicity:	Not available			
Other:	See actual entry in RT	ECS for complete information.		
		Section 12 - Ecological Information		
Other:	Do not empty i	nto drains.		
		Section 13 - Disposal Considerations		
Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. RCRA P-Series: None listed. RCRA U-Series: None listed.				
		Section 14 - Transport Information		
US DOT Shinning Name: 71				
Shipping Name: ZI Hazard Class: 5.1	NC NIIKAIE			
UN Number: UN1514				
Packing Group: II				
Canada TDG				
Shipping Name: ZI	NC NITRATE			
Hazard Class: 5.1 UN Number: UN1514				
Packing Group: II	•			
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		Section 15 Pegulatory Information		

CAS# 10196-18-6 is not on the TSCA Inventory because it is a hydrate. It is considered to be listed if the CAS number for the anhydrous form in on the Inventory (40CFR720.3(u)(2)).

Health & Safety Reporting List	None of the chemicals are on the Health & Safety Reporting List.	
Chemical Test Rules Section 12b	None of the chemicals in this product are under a Chemical Test Rule. None of the chemicals are listed under TSCA Section 12b.	
TSCA Significant New Use Rule	None of the chemicals in this material have a SNUR under TSCA.	
CERCLA Hazardous Substances and corresponding RQs	None of the chemicals in this material have an RQ.	
SARA Section 302 Extremely Hazardous Substances	None of the chemicals in this product have a TPQ.	
SARA Codes	CAS # 10196-18-6: acute, flammable.	
Section 313	This material contains Zinc Nitrate Hexahydrate (listed as Zinc compounds), 100%, (CAS# 10196-18-6) which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 372.	
Clean Air Act:	This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depletors. This material does not contain any Class 2 Ozone depletors.	
Clean Water Act:	None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. CAS# 10196-18-6 is listed as a Toxic Pollutant under the Clean Water Act.	
OSHA:		
STATE	Zinc Nitrate Hexahydrate can be found on the following state right to know lists: California, (listed as Zinc compounds), New Jersey, (listed as Zinc compounds), Pennsylvania, (listed as Zinc compounds).	
California Prop 65		
California No Significant Risk Level:	None of the chemicals in this product are listed.	
European/International Reg	gulations	
European Labeling in	n Accordance with EC Directives	
Hazard Symbol	Is: XN O	
Risk Phrases:		
R 22 Harm	iful if swallowed.	
R 36/38 Ir	ritating to eyes and skin.	
R 8 Contac	et with combustible material may cause fire.	
Safety Phrases:		
S 17 Keep	away from combustible material.	
S 24/25 Av	void contact with skin and eyes.	
WGK (Water Dange	pr/Protection)	
CAS# 10196-1	8-6: 1	
Canada		
Canadian WHN	AIS Classifications: C, D1B, D2B	
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# 10196-18-6 is not listed on Canada's Ingredient Disclosure List.		
	Section 16 - Other Information	

MSDS Creation Date: 8/21/1998 Revision #4 Date 5/23/2007 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.
