

Material Safety Data Sheet Zinc Nitrate Hexahydrate, 98%

MSDS# 01726

	Section 1 - Chemical Product and Company Identification		
MSDS Name:	Zinc Nitrate Hexahydrate, 98%		
Catalog Numbers:	AC211660000, AC211660010	, AC211660050	
Synonyms:	Nitric Acid, Zinc Salt, Hexahydrate		
Company Identification:		Acros Organics BVBA Janssen Pharmaceuticalaan 3a 2440 Geel, Belgium	
Company Identification: (USA)		Acros Organics 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, U	US:	800-424-9300	
CHEMTREC Phone Number, I	Europe:	703-527-3887	
CHEMTREC Phone Number, I	Europe:	703-527-3887	

Section 2 - Composition, Information on Ingredients

CAS#:	10196-18-6		
Chemical Name:	Zinc Nitrate Hexahydrate		
%:	98		
EINECS#:	unlisted		

Hazard Symbols:



Risk Phrases:

8

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Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Danger! Strong oxidizer. Contact with other material may cause a fire. May be harmful if swallowed. May cause eye and skin irritation. May cause respiratory and digestive tract irritation. Target Organs: None.

Potential Health Effects

- Eye: May cause eye irritation.
- Skin: May cause severe skin irritation.
- Ingestion: May cause severe digestive tract irritation with abdominal pain, nausea, vomiting and diarrhea. May be harmful if swallowed.

Inhalation: May cause respiratory tract irritation. May cause methemoglobinemia, cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood), convulsions, tachycardia, dyspnea (labored breathing), and death.

Chronic: No information found.

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 if irritation develops or persists. Wash clothing before reuse. Flush skin with plenty of soap and water.					
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	hove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If thing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.				
Notes to Physician:	-		-			
-		Section	5 - Fire Fighting Measure	es		
General Information:	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Strong oxidizer. Contact with other material may cause fire. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep fire-exposed containers cool. Use water with caution and in flooding amounts. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas. Containers may explode when heated.					
Extinguishing Media:	Use water only! Do NOT get water inside containers. Contact professional fire-fighters immediately. Cool containers with flooding quantities of water until well after fire is out. For small fires, do NOT use dry chemicals, carbon dioxide, halon or foams. USE WATER ONLY. For large fires, flood fire area with water from a distance.					
Autoignitio Temperature	ⁿ Not applica	ble.				
Flash Poin	t: Not applica	ble.				
Explosion Limits: Lower:						
Explosion Limits: Upper:						
NFPA Rating	g: NFPA Ratin	ıg:				
		Section 6 -	Accidental Release Meas	sures		
General Information:	Use proper p	personal protective equip	ment as indicated in Sect	ion 8.		
Spills/Leaks: Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions. Remove all sources of ignition. Use a spark-proof tool. Provide ventilation. Do not get water inside containers.						
Section 7 - Handling and Storage						
Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with clothing and other combustible materials. Do not get on skin or in eyes. Avoid ingestion and inhalation. Keep from contact with clothing and other combustible materials. Discard contaminated shoes.						
Storage: Keep away from heat, sparks, and flame. Do not store near combustible materials. Store in a cool, dry place. Keep containers tightly closed. Keep away from strong bases.						
Section 8 - Exposure Controls, Personal Protection						
Chemica	l Name	ACGIH	NIOSH	++ OSHA - Final PELs 		
Zinc Nitrate Hexahy drate		none listed	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 L	Limits				
Personal P	rotective Equipment				
Eyes:		ear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face otection regulations in 29 CFR 1910.133 or European Standard EN166.			
Skin:	Wear appropriate	ear appropriate gloves to prevent skin exposure.			
Clothing:	Wear a chemical a	ar a chemical apron. Wear appropriate clothing to prevent skin exposure.			
Respirators		ection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or d EN 149 must be followed whenever workplace conditions warrant respirator use.			
		Section 9 - Physical and Chemical Properties			
		Physical State: Solid			
		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)			
		Decomposition Temperature:			
		Solubility in water: Soluble in water.			
		Specific Gravity/Density: 2.065			
		Molecular Formula: Zn(NO3)2 .6H2O			
		Molecular Weight: 297.4702			
		Section 10 - Stability and Reactivity			
Chemical Stability:		Stable under normal temperatures and pressures.			
Conditions to Avoid:		Incompatible materials, ignition sources, dust generation, combustible materials, reducing agents.			
Incompatib Materials	ilities with Other	Not available			
Hazardous Decomposition Products		Nitrogen oxides, nitrogen gas, toxic fumes of zinc oxide.			
Hazardous	Polymerization	Will not occur.			
		Section 11 - Toxicological Information			
RTECS#:	CAS# 10196	6-18-6: ZH4775000			
	RTECS:				
		6-18-6: Draize test, rabbit, eye: 20 mg/24H Moderate;			
LD50/LC5		abbit, skin: 500 mg/24H Severe; LD50 = 0.26 mg/bac			
Oral, mouse: LI Oral, rat: LD50					
	Ofal, fat. LD	50 – 1190 mg/kg,			
Carcinogen	icity: Zinc Nitrate	Hexahydrate - 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			
ot available					
-		Section 13 - Disposal Considerations			
Dispose of	in a manner consiste	ent with federal, state, and local regulations.			
1		Section 14 - Transport Information			
S DOT					

US DOT Shipping Name: ZINC NITRATE

Hazard Class: 5.1 UN Number: UN1514 Packing Group: II 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: O

Risk Phrases:

R 8 Contact with combustible material may cause fire.

Safety Phrases:

WGK (Water Danger/Protection)

CAS# 10196-18-6: 1

Canada

Canadian WHMIS Classifications: C, 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.

US Federal

TSCA

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 (40 CFR720.3(u)(2)).

Section 16 - Other Information MSDS Creation Date: 8/21/1998 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.
