

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

Nitric Acid, Zinc Salt, Hexahydrate Synonyms:

Acros Organics BVBA Company Identification:

Janssen Pharmaceuticalaan 3a

2440 Geel, Belgium

Acros Organics One Reagent Lane Company Identification: (USA)

Fair Lawn, NJ 07410

703-527-3887

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

Section 2 - Composition, Information on Ingredients

CAS#: 10196-18-6

Chemical Name: Zinc Nitrate Hexahydrate

%:

CHEMTREC Phone Number, Europe:

EINECS#: unlisted

Hazard Symbols: 0



Risk Phrases: 8

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.

May cause severe digestive tract irritation with abdominal pain, nausea, vomiting and diarrhea. May be harmful if Ingestion:

swallowed.

May cause respiratory tract irritation. May cause methemoglobinemia, cyanosis (bluish discoloration of skin due Inhalation:

to deficient oxygenation of the blood), convulsions, tachycardia, dyspnea (labored breathing), and death.

Chronic: No information found.

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

medical aid.

Get medical aid if irritation develops or persists. Wash clothing before reuse. Flush skin with plenty of soap Skin:

and water.

Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give Ingestion:

anything by mouth to an unconscious person. Get medical aid if irritation or symptoms occur.

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

breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Notes to Physician:

General

Information:

Section 5 - Fire Fighting Measures

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.

Autoignition Not applicable. Temperature:

Flash Point: Not applicable.

Explosion Not available Limits: Lower:

Explosion Not available Limits: Upper:

NFPA Rating: NFPA Rating:

Section 6 - Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.

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.

Spills/Leaks:

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

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 Handling: 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.

Keep away from heat, sparks, and flame. Do not store near combustible materials. Store in a cool, dry place. Storage:

Keep containers tightly closed. Keep away from strong bases.

Section 8 - Exposure Controls, Personal Protection

Chemical Name	+	+ NIOSH	OSHA - Final PELs	
 Zinc Nitrate Hexahy	none listed	none listed	 none listed	
drate			<u> </u>	
+	+	+	+	-

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.

Wear appropriate gloves to prevent skin exposure. Skin:

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

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: 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.

Incompatible materials, ignition sources, dust generation, combustible materials, Conditions to Avoid:

reducing agents.

Incompatibilities with Other

Materials

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# 10196-18-6: ZH4775000

RTECS:

CAS# 10196-18-6: Draize test, rabbit, eye: 20 mg/24H Moderate;

Draize test, rabbit, skin: 500 mg/24H Severe; LD50/LC50:

Oral, mouse: LD50 = 926 mg/kg; Oral, rat: LD50 = 1190 mg/kg;

Carcinogenicity: Zinc Nitrate Hexahydrate - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

See actual entry in RTECS for complete information. Other:

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: 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 (40CFR720.3(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.
