Material Safety Data Sheet
Zinc Nitrate Hexahydrate, 98\%

MSDS\# 01726

MSDS Name:
Catalog Numbers:
Synonyms:

Company Identification:

Company Identification: (USA)

For information in the US, call:
For information in Europe, call:
Emergency Number, Europe:
Emergency Number US:
CHEMTREC Phone Number, US:
CHEMTREC Phone Number, Europe:

Section 1 - Chemical Product and Company Identification
Zinc Nitrate Hexahydrate, 98\%
AC211660000, AC211660010, AC211660050
Nitric Acid, Zinc Salt, Hexahydrate
Acros Organics BVBA
Janssen Pharmaceuticalaan 3a
2440 Geel, Belgium
Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410
800-ACROS-01
+32 14575211
+32 14575299
201-796-7100
800-424-9300
703-527-3887

Section 2 - Composition, Information on Ingredients


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.
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. medical aid.

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

Ingestion:
Inhalation:
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.
Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.
Notes to
Physician:

General

## 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

Extinguishing Media:

Autoignition Temperature:

Flash Point: Not applicable.
${ }_{\text {Limits: Lower: }}^{\text {Explosion }}$ Not available

NFPA Rating: NFPA Rating:

## Section 6 - Accidental Release Measures

General Information:

Spills/Leaks:

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. 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 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. Keep containers tightly closed. Keep away from strong bases.

Section 8 - Exposure Controls, Personal Protection


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 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.
Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or 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 ( $97.52^{\circ} \mathrm{F}$ )
Decomposition Temperature:
Solubility in water: Soluble in water.
Specific Gravity/Density: 2.065
Molecular Formula: $\mathrm{Zn}(\mathrm{NO} 3) 2$.6H2O
Molecular Weight: 297.4702
Section 10 - Stability and Reactivity

Chemical Stability:
Conditions to Avoid:
Incompatibilities with Other Materials
Hazardous Decomposition
Products
Hazardous Polymerization

Stable under normal temperatures and pressures.
Incompatible materials, ignition sources, dust generation, combustible materials, reducing agents.

Not available

Nitrogen oxides, nitrogen gas, toxic fumes of zinc oxide.
Will not occur.
Section 11-Toxicological Information

RTECS\#: CAS\# 10196-18-6: ZH4775000
RTECS:
CAS\# 10196-18-6: Draize test, rabbit, eye: $20 \mathrm{mg} / 24 \mathrm{H}$ Moderate;
Draize test, rabbit, skin: $500 \mathrm{mg} / 24 \mathrm{H}$ Severe;
Oral, mouse: LD50 $=926 \mathrm{mg} / \mathrm{kg}$;
Oral, rat: LD50 $=1190 \mathrm{mg} / \mathrm{kg}$;

Carcinogenicity: 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
Not available
Section 13 - Disposal Considerations
Dispose of in a manner consistent with federal, state, and local regulations.
Section 14 - Transport Information

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.

