

MATERIAL SAFETY DATA SHEET

24 HR. EMERGENCY PHONE # CHEM-TREC 1-800-424-9300

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SECTION 1 Product Identification

CHEMICAL NAME: Zinc nitrate hexahydrate
CAS #: 10196-18-6
FORMULA: Zn(NO₃)₂·6H₂O
SYNONYM: Nitric acid, zinc salt, hexahydrate

SECTION 2 Composition and Information on Ingredients

| INGREDIENT: | CAS # | % | ACGIH (TWA) | OSHA (PEL) |
|----------------|------------|-----|-------------|------------|
| Title Compound | 10196-18-6 | 100 | no data | no data |

SECTION 3 Hazards Identification

EMERGENCY OVERVIEW: Irritating to skin, eyes and respiratory tract. Harmful if swallowed
PRIMARY ROUTES OF EXPOSURE: Ingestion
EYE CONTACT: Causes slight to mild irritation of the eyes.
SKIN CONTACT: Causes slight to mild irritation of the skin.
INHALATION: Irritating to the nose, mucous membranes and respiratory tract.
INGESTION: Harmful if swallowed. Ingestion may lead to dizziness, abdominal cramps, vomiting, bloody diarrhea, weakness, and convulsions.
CHRONIC HEALTH EFFECTS: No information available on long term chronic effects.
ACUTE HEALTH EFFECTS: Irritating to skin, eyes and respiratory tract. Harmful if swallowed.

SECTION 4 First Aid Measures

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.
SKIN EXPOSURE: Wash affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.
INHALATION: Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases seek immediate medical assistance.
INGESTION: Seek medical assistance immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

SECTION 5 Firefighting Measures

FLASH POINT: not applicable

AUTO IGNITION TEMPERATURE: none

EXPLOSION LIMITS: none

EXTINGUISHING MEDIUM: carbon dioxide, foam, or dry powder

SPECIAL FIREFIGHTING PROCEDURES: If involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: If involved in a fire this material may emit irritating fumes.

UNUSUAL FIRE OR EXPLOSION HAZARDS: Metal nitrates can be oxidizers. contact with strong reducing agents could lead to fire and/or explosions.

SECTION 6 Accidental Release Measures

SPILL AND LEAK PROCEDURES: Small spills can be mixed with vermiculite or sodium carbonate and swept up.

SECTION 7 Handling and Storage

HANDLING AND STORAGE: Store material in a tightly sealed container. Keep away from heat and direct sunlight.

SECTION 8 Exposure Controls and Personal Protection

EYE PROTECTION: Always wear approved safety glasses w/side shields, or safety goggles, face shield when handling a chemicals substance in the laboratory.

SKIN PROTECTION: Chemical-resistant.

VENTILATION: If possible, handle the material in an efficient fume hood.

RESPIRATOR: If in form of fine dust and ventilation is not available a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 19-10.134.

SECTION 9 Physical and Chemical Properties

COLOR AND FORM: white xtl.

MOLECULAR WEIGHT: 189.41 (297.47)

MELTING POINT (DEG. C.): none

BOILING POINT: no data

VAPOR PRESSURE: not applicable

SPECIFIC GRAVITY: 2.065

SOLUBILITY IN WATER: 184.3g/100cc (20°C)

SECTION 10 Stability and Reactivity

STABILITY: air and moisture stable

HAZARDOUS POLYMERIZATION: no hazardous polymerization

CONDITIONS TO AVOID: Contact with strong reducing agents or organic matter. Some nitrates can explode if heated to high temperatures.

INCOMPATIBILITY: reducing agents, organic matter, phosphorus and sulfur

DECOMPOSITION PRODUCTS: nitrogen oxides and zinc salts.

SECTION 11 Toxicological Information

RTECS DATA: Administration onto the skin (rabbit); Standard Draize test: 500 mg/24H. Oral (rat); LD50: 1190 mg/kg. Intraperitoneal (rat); LD50: 133 mg/kg. Oral (mouse); LD50: 926 mg/kg. Intraperitoneal (mouse); LD50: 110 mg/kg.

MUTAGENIC EFFECTS: no data

TETRATOGENIC EFFECTS: no data

CARCINOGENIC EFFECTS: no data

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

SECTION 12 Ecological Information

ECOLOGICAL INFORMATION: No information available

SECTION 13 Disposal Considerations

DISPOSAL: Dispose of in according to local state and federal regulations.

SECTION 14 Transportation Information

Zinc nitrate, Class 5.1, UN 1514, PG II

SECTION 15 Regulatory Information

TSCA: Not listed in the TSCA inventory

SARA (TITLE 313): Title compound : See category N511 and N982 for reporting.

SECTION 16 Other Information

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