



天津市新欣化工厂

信利达 Tianjin Xinxin Chemical Factory

# Material Safety Data Sheet

## Zinc Sulfate Heptahydrate

ACC# 25580

### Section 1-Chemical Product and Company Identification

**MSDS Name:** Zinc Sulfate Heptahydrate

**Catalog Numbers:** AC205980000, AC205980010, AC205982500, AC424600000, AC424600030, AC424605000, NC9460712, Z68-3, Z68-500, Z76-12, Z76-3, Z76-500, Z76SAM1, Z76SAM2, Z76SAM3

**Synonyms:** White vitriol; zinc vitriol.

**Company Identification:**

Fisher Scientific  
1 Reagent Lane  
Fair Lawn, NJ 07410

**Supplier name:** DaeMyung chemical Corporation

**Address:** 187, Cheongwonsandan 3-gil, Mado-myeon, Hwaseong-si, Gyeonggi-do, Korea

**Emergency Number:** T. +82-2-462-3857

### Section 2-Composition, Information on Ingredients

CAS#	Chemical Name	content	EINECS#
7446-20-0	Zinc sulfate, heptahydrate	99	unlisted

Text for R-phrases: see Section 16

Hazard Symbols: XN N

Risk Phrases: 22 41 50/53

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## Section 3-Hazards Identification

### EMERGENCY OVERVIES

Appearance: white crystals.

**Warning!** Causes severe eye irritation and possible eye injury. Causes skin and respiratory tract irritation. May be harmful if swallowed. Very toxic to aquatic organisms.

**Target Organs:**Respiratory system, eyes, skin.

#### Potential Health Effects

**Eye:** Contact may cause severe eye irritation and possible eye damage.

**Skin:** Causes skin irritation.

**Ingestion:** May cause irritation of the digestive tract. May be harmful if swallowed.

**Inhalation:** Dust is irritating to the respiratory tract. May be harmful if inhaled.

**Chronic:** No information found.

## Section 4-First Aid Measures

**Eyes:** In case of contact, immediately flush eyes with plenty of water for a t least 15 minutes. Get medical aid immediately.

**Skin:** In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical aid if irritation develops and persists. Wash clothing before reuse.

**Ingestion:** If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid.

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

**Notes to Physician:** Treat symptomatically and supportively.

## Section 5-Fire Fighting Measures

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

**Extinguishing Media:** Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.

**Flash Point:** Not applicable.

**Autoignition Temperature:** Not applicable.

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**Explosion Limits, Lower:** Not available.

**Upper:** Not available.

**NFPA Rating:** (estimated) Health: 2; Flammability: 0; Instability: 0

## Section 6-Accidental Release Measures

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

**Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Provide ventilation. This material is a water pollutant and should not be emptied into drains.

## Section 7-Handling and Storage

**Handling:** Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid breathing dust.

**Storage:** Store in a cool, dry, well-ventilated area away from incompatible substances.

## Section 8-Exposure Controls, Personal Protection

**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

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Zinc Sulfate Heptahydrate	none listed	none listed	none listed
Zinc Sulfate Anhydrous	none listed	none listed	none listed

**OSHA Vacated PELs:** Zinc sulfate, heptahydrate: No OSHA Vacated PELs are listed for this chemical.

Zinc sulfate anhydrous: No OSHA Vacated PELs are listed for this chemical.

### Personal Protective Equipment

**Eyes:** Wear chemical splash goggles.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure

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limits are exceeded or if irritation or other symptoms are experienced.

## Section 9-Physical and Chemical Properties

**Physical State:** Crystals

**Appearance:** white

**Odor:** odorless

**pH:** 4.4-6 (5% aq soln)

**Vapor Pressure:** Not available.

**Vapor Density:** Not available.

**Evaporation Rate:** Not available.

**Viscosity:** Not available.

**Boiling Point:** Not available.

**Freezing/Melting Point:** 100 deg C

**Decomposition Temperature:** > 500 deg C

**Solubility:** Soluble in water

**Specific Gravity/Density:** 3.54 g/cm<sup>3</sup> @ 25 deg C

**Molecular Formula:** ZnSO<sub>4</sub>·7H<sub>2</sub>O

**Molecular Weight:** 287.55

## Section 10-Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures. Efflorescent (tending to lose water molecules of hydration) in dry air.

**Incompatibilities with Other Materials:** Strong bases.

**Hazardous Polymerization:** Will not occur.

## Section 11-Toxicological Information

**RTECS#:**

**CAS# 7446-20-0:** ZH5300000

**CAS# 7733-02-0:** ZH5260000

**LD50/LC50:**

**CAS# 7446-20-0:**

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Oral, mouse: LD50 = 200 mg/kg;

Oral, rat: LD50 = 1260 mg/kg;

CAS# 7733-02-0:

Draize test, rabbit, eye: 420 ug Moderate;

Oral, mouse: LD50 = 245 mg/kg;

Oral, rabbit: LD50 = 2 gm/kg;

**Carcinogenicity:**

CAS# 7446-20-0: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

CAS# 7733-02-0: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

**Epidemiology:** No data available.

**Teratogenicity:** No data available.

**Reproductive Effects:** No data available.

**Mutagenicity:** No data available.

**Neurotoxicity:** No data available.

**Other Studies:**

## Section 12-Ecological Information

**Ecotoxicity:** No data available. No information available.

**Environmental:** Very toxic to aquatic organisms.

**Physical:** No information available.

**Other:** No information available.

## 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.

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## Section 14-Transport Information

Shipping Name	Zinc Sulphate Heptahydrate
Hazard Class(IMDG)	N/A
UN Number	N/A
Packing Group	N/A

## Section 15-Regulatory Information

### US FEDERAL

#### TSCA

CAS# 7446-20-0 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 is on the inventory (40CFR720.3(u)(2)).

CAS# 7733-02-0 is list on the TSCA Inventory.

#### Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

#### Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

#### Section 12b

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

CAS# 7733-02-0:1000lb final RQ;454 kg final RQ

#### SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

#### SARA Codes

CAS# 7446-20-0:immediate.

#### Section 313

This material contains Zinc Sulfate,heptahydrate (listed as Zinc compounds),99%,(CAS#7446-20-0) which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

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**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.

**OSHA:**

None of the chemicals in this product are considered highly hazardous by OSHA.

**STATE:**

CAS#7446-20-0 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).

CAS#7733-02-0 can be found on the following state right to know lists :California ,New Jersey, Pennsylvania, Massachusetts.

**California Prop 65**

California No Significant Risk Level: None of the chemicals in this product are listed.

**European/International Regulations**

**European Labeling in Accordance with EC Directives**

**Risk Phrases:**

R 22 Harmful if swallowed.

R 41 Risk of serious damage to eyes.

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Safety Phrases:**

S 22 Do not breathe dust.

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 39 Wear eye/face protection.

S 46 If swallowed, seek medical advice immediately and show this container or label.

S 60 This material and its container must be disposed of as hazardous waste.

S 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

**WGK (Water Danger/Protection)**

CAS# 7446-20-0: 1

CAS# 7733-02-0: 1

**Canada**

CAS# 7446-20-0 is listed on Canada's DSL List.

CAS# 7733-02-0 is listed on Canada's DSL List.

CAS# 7446-20-0 is not listed on Canada's Ingredient Disclosure List.

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## Section 16-Additional Information

**MSDS Creation Date:12/12/2013**

**Revision #7 Date:2/15/2016**

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