



HENAN AIERFUKE CHEMICALS CO., LTD.

THE (WEST) INDUSTRIES CLUSTER AREA OF JIAOZUO CITY, HENAN P ROVINCE, CHINA

TEL:86-391-3126812; FAX:86-391-3126555 www.aefkchem.com Email: daniel@aefkche.com

Polyferric Sulfate

Material Safety Date Sheet

Part One:Chemical Product and Company Identification

Chemical item name:Poly ferric sulfate, polyferric sulfate

Molecular formula: $[\text{Fe}_2(\text{OH})_n(\text{SO}_4)_{3-n/2}]_m$ ($n < 2$, $m = f(n)$)

Contact Information(Manufacturer):

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Part Two:Composition and Information on Ingredients

composition:

Name	CAS #	% by Weight
polyferric sulfate	51434-22-1	100

Part Three:Hazard Identification

Health Hazard:irritation to skin and mucosa.

High density will cause bronchitis, even bronchial asthma sometimes. Too much absorption will cause mouth cavity, gastritis, gastrorrhagia and mucosa necrosis. chronic effect: long-term exposure will cause headache,dizziness, anorexian,cough, rhinobyon and chest pain.

Explosion hazard: non-combustible



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Part Four:First Aid Measures

Skin exposure:take off polluted clothes at once,wash in flowing water for 15 minutes at least and go to hospital.

Eye exposure:open eyelid and wash in flowing water or normal saline for 15 minutes at least,and go to hospital.

Inhalation:go to breath fresh air and keep the respiratory tract clear.If breath hard, oxygen therapy is needed.if breath stopped,artificial breath must be done at once and go to hospital.

Ingestion:wash mouth and drink some milk or albumen,and go to hospital.

Part Five:Fire and Explosion Data

Suitable extinguishing media: use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Advice for firefighters: wear self contained breathing apparatus for fire fighting if necessary.

Part Six:Leakage Emergency Treatment

First aid treatment:separate the leaking polluted area,control come-in and go-out.Emergency men should wear anti-dust mask,and wear anti-acid bases uniform.Don't touch the leakage directly.If leakage is small,avoid cause dust,and use clean shovel to gather the leakage in closed container.If the leakage is much:use plastic cloth or canvas to cover it.And clear it away with professional guidance.

Part Seven:Operating and Storing

Operating attention:Operate in airtight condition,and local exhaust.Operation staff must be trained strictly and professionally,and they should obey operation regulations and rules.And operation staff should wear self-absorped,filtered and anti-dust mask,wearing chemical protected glasses,anti-acid bases uniforms and gloves are required.Keep away from the combustible and dust.Avoid to expose to soda and alcohol.Especially avoid to be exposed to water.Be careful when being loaded or uploaded,Protect its package and container from being damaged. Equip with leakage handling facilities.And the empty containers are possible to have injurant.

Storing attention:store the chemicals in cool,dry and breeziest warehouse.keep them away from



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inflammable and heat sources. The humidity should be kept under 75%. Package must be sealed and dry. They should be stored separately from the combustibles, soda, and alcohol, they mustn't be mixed. Avoid storing for a long time, or it will go bad. Warehouse should have some suitable containers to gather the leakage.

Part Eight: Exposure Control and Individual Protection

Occupation Exposure limitation China MAC(mg/m³): No standard at present

TLVTN : ACGIH 2mg/m³ **TLVWN :** No regulated standard yet

Project control: operation in airtight condition, local exhaust. Supply safe shower facilities and eye-washing facilities.

Breathing System Protection: When exposed to the chemical dust, we should wear self-absorbed, filtered, and anti-dust mask, when handling emergency, we suggest air respirator resuscitator.

Eye protection: Wear chemical-safe protection glasses.

Body protection: Wear rubber anti-acid bases uniform.

Hand protection: Wear rubber anti-acid bases gloves.

Other protection: Forbid smoking, eat and drinking in working area. After work, take shower at once and change clean clothes. Put the hazard polluted clothes separately and keep good sanitary habit.

Part Nine: Physical and chemical Features

Appearance: Yellow flakes, granular or powder solid.

PH: 2.0-3.0

Melting Point: (°C) : 190(253kPa)

Boiling Point: No standard information

Relative Density(water=1): 2.44

Relative Steam Density(air=1): No standard information

Saturation Steam Pressure(kPa) : 0.13(100°C)

Heat of Combustion: No information

Critical Temperature(°C): No information

Critical Pressure(MPa): No information



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Octanol/water ratio:No information

Flashing Point(°C):No sense

Combustible Degree(°C):No sense

Explosure Upper Limit%(V/V) : No sense

Explosure Lower Limit%(V/V) : No sense

Dissolubility:Soluble with water,alcohol,chloroform,and tetra-chloride.

Main usage:innovative, superior and efficient ferric salt inorganic high polymer wadding,mainly used in purifying water,filter aluminium,chlorine and other heavy metal ion hazard.And no iron ion transferring,non toxic and hazard,its safe and reliable. It's turbidity removal,decoloration, deoiling, dewatering, degerming,deodorization, turbidity removal,and remove COD,BOD,and heavy metal ion.It is also widely used in industrial waste water purifying,such as printing dyeing waste water handling,and also be used in casting,paper making,healing drugs,processing hides,ect.

Part Ten:Stability and Reactivity Data

Reactivity:no data available

Chemical stability: no data available

Possibility of hazardous reactions: no data available

Conditions to avoid: avoid moisture

Incompatible materials: strong oxidizing agents

Hazardous decomposition products: other decomposition products-no date available.

Part Eleven:Toxicology Information

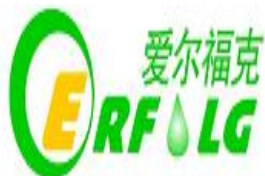
Acute Toxicity: no data available

Inhalation: no data available

Reproductive Effects: No reproductive effects are known.

Target Organs: No data available.

Part Twelve: Ecological Information



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Ecotoxicological Information: No ecological effects of this product are known. Safely store product to avoid release to the environment.

Part Thirteen: Disposal considerations

Disposal Processing Method: Handling according to the state of local laws and regulations. Product containers should be thoroughly emptied before disposal.

Part Fourteen: Transportation Information

DOT Classification: Not a DOT controlled material

Identification: Not applicable.

Special Provisions for Transport: Not applicable.

Part Fifteen: Other Regulatory Information

This safety datasheet complies with the requirements of regulation.

Safety, health and environmental regulations/legislation specific for the substance or mixture: no data available

Chemical safety Assessment: no data available

Part Sixteen: Other Information

References: Not available.

Other Special Considerations: Not available.

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