

Material Safety Data Sheet (MSDS)

Product Name: Copper Sulfate

1. Chemical Product and Company Identification

Shegerf Fidar Shimi Sava Co.

IRAN

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2. Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
7758-99-8	Copper Sulfate	24-25	7758-98-7 7758-99-8(pentahydrate)

3. Hazard(s) identification

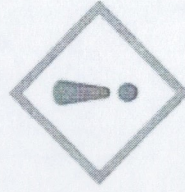
Classification This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity	Category 4
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2

تولید و فروش مواد شیمیایی

تاریخ: _____
شماره: _____
پوسته: _____

Label Elements	
Signal Word	Warning
Hazard Statemen	Harmful if swallowed
	Causes skin irritation
	Causes serious eye irritation



Precautionary Statement :

Prevention: Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Wear protective gloves/protective clothing/eye protection/face protection

Skin: IF ON SKIN: Wash with plenty of soap and water If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse.

Eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

Ingestion IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth

Disposal: Dispose of contents/container to an approved waste disposal plant

4. First-aid measures

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.
Inhalatio	Remove to fresh air. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention. If not breathing, give artificial respiration.



Ingestion	Do NOT induce vomiting. Call a physician or poison control center immediately
Most important symptom and effects	No information available
Notes to Physician	Treat symptomatically

5. Fire-fighting measures

Suitable Extinguisher	Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.
Unsuitable Extinguisher	No information available
Flash Point	No information available
Method	No information available
Autoignition Temperature Explosion Limit	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mech	No information available
Sensitivity to Static	No information available
Specific Hazards Arising from the Chemical	Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes. Do not allow run-off from fire-fighting to enter drains or water courses
Hazardous Combustion Products	Toxic fumes. Sulfur oxides. Copper oxid
Protective Equipment and Precautions for Firefightes	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental release measures

Personal Precautions	Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation. Avoid contact with skin, eyes or clothing
Environmental Precautions	Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. Should not be released into the environment.

Methods for Containment and Clean Up	sweep up and shovel into suitable containers for disposal. Avoid dust formation.
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7. Handling and storage

Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid dust formation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Store under an inert atmosphere. Incompatible Materials. Strong bases. Metals. Alkali metals. Finely powdered metals.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Cupric sulfate	TWA: 1 mg/m ³		IDLH: 100 mg/m ³ TWA: 1 mg/m ³	

Engineering Measures:	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstat
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Personal Protective Equipment

Eye/face Protection	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 and body	Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Pretaction	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 limits are exceeded or if irritation or other symptoms are experienced.
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Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.
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9. Physical and chemical properties

Physical State	Powder Solid
Appearance	Grey
Odor	Odorless
Odor Threshold	No information available
pH	3.5-4.5
Melting Point/Range	200 °C / 392 °F
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	3.6
Solubility	203 g/L (20°C)
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	Cu O4 S
Molecular Weight	159.6

10. Stability and reactivity

Reactive Hazard	None known, based on information available.
Stability	Stable under normal conditions. Hygroscopic.
Conditions to Avoid	Avoid dust formation. Incompatible products. Excess heat. Exposure to moisture.
Incompatible Material	Strong bases, Metals, Alkali metals, Finely powdered metals
Hazardous Decomposition Products	Toxic fumes, Sulfur oxides, Copper oxides
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

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13. Disposal considerations

Waste Disposal Methods	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.
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14. Transport information

<u>DOT</u>	UN-No	Proper Shipping Name	Technical Name	Hazard Class	Packing Group	TDG
	UN3077	Environmentally hazardous substances, solid, n.o.s.	Cupric sulfate	9	III	
<u>IATA</u>	UN-No	Proper Shipping Name	Hazard Class	Packing Group		
	UN3077	Environmentally hazardous substances, solid, n.o.s.		9	III	
<u>IMDG/IMO</u>	UN-No	Proper Shipping Name	Hazard Class	Packing Group		
	UN3077	Environmentally hazardous substances, solid, n.o.s.		9	III	
	UN3077	Environmentally hazardous substances, solid, n.o.s.		9	III	