

GELEST, INC.

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MATERIAL SAFETY DATA SHEET

EMERGENCY TELEPHONE
CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: **COPPER SILICIDE, granules - SIC2435.0**

CHEMICAL NAME: COPPER SILICIDE

SYNONYMS: COPPER SILICON ALLOY

CHEMICAL FAMILY: METAL SILICIDE

FORMULA: Cu₅Si

HMIS CODES HEALTH: 1 FLAMMABILITY: 1 REACTIVITY: 0

INGREDIENTS

IDENTITY	CAS NO.	%	TLV	OSHA PEL
COPPER SILICIDE	12159-07-8	>97	not established	1mg/m ³

PHYSICAL DATA

Boiling Point: N/A

Specific Gravity: 7.7-7.8

Vapor Density (air = 1): NA

% volatiles: 100

Molecular Weight: 345.79

Appearance & Color: Bluish-black to gray coarse granules

Melting Point: 825°C

Vapor Pressure, 20°: <0.001mm

Solubility in water: insoluble

Evaporation rate: NA

Other: NA

FIRE & EXPLOSION DATA

Flash Point, COC: none

Autoignition Temp.: not applicable

Flammability Limits- LEL: NA UEL: NA

Extinguishing Media: Not combustible.

Special Fire Fighting Procedures: Avoid eye and skin contact. Do not breathe particulates.

Unusual Fire and Explosion Hazards: None

-1-(SIC2435.0)

ENVIRONMENTAL INFORMATION

Spill response: Sweep material, avoiding inhalation of particulates.

Recommended Disposal: Landfill. Follow all chemical pollution control regulations.

HEALTH HAZARD DATA

Eye Contact: Particulates may cause immediate or delayed eye irritation.

Skin contact: May produce irritation. Prompt and thorough washing with soap and water will reduce or eliminate potential dermal effects.

Inhalation: Inhalation of particulates may irritate the respiratory tract. Overexposure may produce coughing, headache and nausea.

Oral Toxicity: not determined

Chronic Toxicity: There are no known chronic effects related to this compound.

SUGGESTED FIRST AID

EYES: In case of contact, immediately flush eyes with flowing water for at least 15 minutes. Get medical attention.

SKIN: Flush with water, then wash with soap and water.

INHALATION: Move exposed individual to fresh air. Call a physician.

INGESTION: Never give fluids or induce vomiting if patient is unconscious or having convulsions. Get medical attention.

REACTIVITY DATA

Stability: Stable.

Conditions to avoid: None determined

Incompatibility (materials to avoid): None determined

Hazardous decomposition products: None known

-2-(SIC2435.0)

SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust is required. Mechanical is recommended.

Respiratory Protection: If exposure exceeds TLV for particulates, a dust mask is required.

Eye and Face Protection: Safety glasses.

Other Clothing and Equipment: Rubber, neoprene or nitrile gloves. An eyewash and emergency shower should be available. Launder clothing before reuse.

OTHER PRECAUTIONS

For research and industrial use only.

Storage and Handling: Store in sealed containers. While not flammable, the ability of particles to generate static charge may present a hazard when used in combination with flammable liquids.

TRANSPORTATION

DOT SHIPPING NAME: NOT REGULATED

DOT HAZARD CLASS: NOT REGULATED

DOT LABELS: NOT REQUIRED

DOT ID No: NOT REQUIRED

Prepared by safety and environmental affairs

ISSUE DATE SIC2435.0: 2/10/04

SUPERSEDES: none

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