

9540
#19540

JUL 14 1994

SB14933 ✓

SB14929 ✓
SB14930 ✓

SB14931 ✓
SB14932 ✓



Columbus Chemical Industries, Inc./N4335 Temkin Rd./Columbus, Wisconsin 53925/414-623-2140

SB/5338M ✓ SB/6998M ✓

MATERIAL SAFETY DATA SHEET

SB7680 ✓
SB7681 ✓

| | | | |
|--|---|--|-------------------|
| ENTERED OCT 10 1986 | | SECTION I | CAS NO. 7758-99-8 |
| CHEMICAL NAME AND SYNONYMS Copper Sulfate | | TRADE NAME AND SYNONYMS Bluestone, Pentahydrate | |
| CHEMICAL FAMILY Copper Salts | FORMULA CuSO ₄ ·5H ₂ O | | |

SECTION II—HAZARDOUS INGREDIENTS

| PAINTS, PRESERVATIVES, & SOLVENTS | % | TLV (Units) | ALLOYS AND METALLIC COATINGS | % | TLV (Units) |
|---|---|-------------|--|---|-------------|
| PIGMENTS | | | BASE METAL | | |
| CATALYST | | | ALLOYS | | |
| VEHICLE | | | METALLIC COATINGS | | |
| SOLVENTS | | | FILLER METAL PLUS COATING OR CORE FLUX | | |
| ADDITIVES | | | OTHERS | | |
| OTHERS | | | | | |
| HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES | | | | % | TLV (Units) |
| This section does not apply to copper sulfate. | | | | | |

SECTION III—PHYSICAL DATA

| | | | | |
|-------------------------|---------------------------------------|-------|---|--------------------|
| BOILING POINT (°F.) | Anhydrous @ | 250°C | SPECIFIC GRAVITY (H ₂ O = 1) | 2.29 |
| VAPOR PRESSURE (mm Hg.) | loses 2H ₂ O | 30°C | PERCENT, VOLATILE BY VOLUME (%) | 35% |
| VAPOR DENSITY (AIR = 1) | loses 4H ₂ O | 110°C | EVAPORATION RATE (—water— = 1) | slowly efforescent |
| SOLUBILITY IN WATER | | Very | | 25.2% |
| APPEARANCE AND ODOR | Blue crystals, sweetish irritant dust | | | |

SECTION IV—FIRE AND EXPLOSION HAZARD DATA

| | | | | | |
|--|---|----|------------------|------------|------------|
| FLASH POINT (Method used) | nonflammable | NA | FLAMMABLE LIMITS | Lel N/A | Uel N/A |
| EXTINGUISHING MEDIA | NA (Suitable to extinguish the supporting flame.) | | | | |
| SPECIAL FIRE FIGHTING PROCEDURES | NONE | | | | |
| Wear self-contained breathing apparatus for any chemical fire. | | | | | |
| UNUSUAL FIRE AND EXPLOSION HAZARDS | NONE | | | | |

SECTION V—HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

1 mg/m³Rat LD₅₀ 300 mg/kg

EFFECTS OF OVEREXPOSURE

Corrosive in eyes or if swallowed. Also, irritates mucous membranes and skin.

EMERGENCY AND FIRST AID PROCEDURES

Call physician for serious inhalation, eye contact, or ingestion. Wash with copious amounts of water for at least 15 min. If swallowed, give two glasses of magnesia, milk, or water. Induce vomiting. Repeat until vomit is clear. See physician for dermatitis.

SECTION VI—REACTIVITY DATA

STABILITY

UNSTABLE

CONDITIONS TO AVOID
Heat, humidity

STABLE

X

INCOMPATIBILITY (Materials to avoid)

Alkalies precipitate basic CUSO4. Avoid reducing agents.

HAZARDOUS DECOMPOSITION PRODUCTS

Above 560 C - Copperfume, sulfuric acid, sulfur dioxide

HAZARDOUS
POLYMERIZATION

MAY OCCUR

CONDITIONS TO AVOID

WILL NOT OCCUR

X

SECTION VII—SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Sweep up dry spill wearing protective equipment. Do not flush to sewer or stream.

Toxic to fish! Cover wet spill with lime. Shovel into rust proof container.

WASTE DISPOSAL METHOD

In accordance with all local, state, and federal regulations.

SECTION VIII—SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)

Respirator approved by Bureau of Mines for toxic dust.

VENTILATION

LOCAL EXHAUST

suction

SPECIAL

MECHANICAL (General)

fan

OTHER

PROTECTIVE GLOVES

rubber gloves

EYE PROTECTION

goggles, face shield

OTHER PROTECTIVE EQUIPMENT

rubber apron, rubber shoes

SECTION IX—SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Store in dry, cool place. Avoid eyes, respiratory, and skin contact. Do not

swallow. Shower with soap after work period.

OTHER PRECAUTIONS

Wash inside of gloves and boots frequently to avoid dermatitis. Remove contaminated clothing at once.