

# SAFETY DATA SHEET

in accordance with 29 CFR 1910.1200

Issue Date: 11/7/03 Revision Date: 8/14/25

Revision #: 8 SDS #: ALPO3

#### **SECTION 1: IDENTIFICATION**

(a) Product Identifier: ALPOLIC® / Copper PE

(b) Other means of Identification: None

(c) Recommended Use: Composite Building Material

(d) Manufacturer/Importer/Distributor: Mitsubishi Chemical America, Inc.

401 Volvo Parkway, Chesapeake, VA 23320 1-800-422-7270 (M-F, 8:00 am – 6:00 pm EST)

(e) Emergency Phone Number: Chemtrec 1-800-424-9300

# **SECTION 2: HAZARD(S) IDENTIFICATION**

(a) Chemical Classification Not classified as hazardous according to OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

(b) Signal Word:

 Hazard Statement(s):
 Symbol(s):
 Precautionary Statement(s):

 (c) Hazards Not Otherwise Classified
 Not applicable
 None Known

(d) Supplemental Information None

NOTE: This product is an "article" according to 29 CFR 1910.1200.

"Article means a manufactured item other than a fluid or particle, which is formed to a specific shape or design during manufacture which has end use function dependent in whole or in part upon its shape or design during end use, and which under normal conditions does not release more than very small quantities or trace amounts of a hazardous chemical, and does not pose a physical hazard or health risk to employees."

# **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Components	CAS Number	Percent
Copper	7440-50-8	67%
Polyethylene	9002-88-4	32%
Flouropolymer Coating	Trade Secret	1%

<sup>\*</sup>Concentration of ingredients varies depending upon the thickness of the material.

# **SECTION 4: FIRST-AID MEASURES**

(a) Eye contact Dust from processing. Rinse eyes with water or saline

for at least 15 minutes. Consult a physician.

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Skin Contact Dust from processing. Wash with soap and water for at least 15

minutes. Get medical attention if irritation develops or persists. Dust from processing. Move to fresh air. Consult a physician.

Not likely due to form of product.

(b) Most important Symptoms/Effects

Inhalation

Ingestion

Inhalation Short term exposure to fumes or dust may produce irritation of

the mucous membranes and respiratory system. Exposure to metal fumes can produce an acute allergic condition known as "metal fume fever". Symptoms may include chills, muscle aches, nausea, fever, dry throat, cough, weakness, and

lassitude. The onset of symptoms may be delayed several hours and recovery generally occurs without intervention within 24 to

48 hours.

Skin Contact Contact with fume or metal powder may irritate skin. Contact

with hot, molten metal will cause thermal burns.

Eye Contact Short term exposure to fumes or dust may cause eye irritation.

Mechanical injury can result from particulate.

Ingestion Ingestion of dust may cause nausea, vomiting, abdominal pain,

No data available.

metallic taste and diarrhea. Ingestion of large doses may cause stomach and intestine ulceration, jaundice, and kidney or liver

damage.

(c) Medical conditions aggravated by Asthma, chronic lung disease, and skin rashes may be

aggravated from exposure to dust during processing.

(d) Indication if immediate medical

attention and special treatment

(b) Specific hazards

fire fighters

# **SECTION 5: FIRE-FIGHTING MEASURES**

(a) Suitable extinguishing media

Use Class D extinguishing agents on fines or molten metal.

Unsuitable extinguishing media Do not use halogenated extinguishing agents on small

chips/fine dusts.

Do not use water in fighting fires around molten metal.

Dust or fines may burn if they are ignited. Fumes may contain oxides of copper and other ingredients. Fine particles or dust

dispersed in the air may present a fire/explosion hazard.

(c) Special PPE and precautions for Fire fighters should wear NIOSH approved, positive pressure,

self-contained breathing apparatus and full protective clothing

when appropriate.

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

(a) Personal precautions, PPE, and Avoid contact with sharp edges or heated metal. Use PPE emergency procedures recommended in Section 8. Avoid generation of airborne dust.

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(b) Environmental Precautions Do not flush dust or fines to surface waters, soil, or sanitary

sewer system.

(c) Methods and materials for containment

and cleaning up

Should a release of dust occur, contain by blocking routes to surface water and grassy areas. Clean up by sweeping and

depositing in a closed container.

#### **SECTION 7: HANDLING AND STORAGE**

(a) Precautions for safe handling As sold in the solid form, copper and copper alloys pose no

chemical handling hazard. Avoid contact with sharp edges, where proper gloves when handling. Dust, fines, fume, or mist generated by processing may pose hazard through inhalation, ingestion, and eye or by skin contact. Avoid breathing metal fumes and/or dust. Practice good housekeeping and good hygiene. Avoid generating dust. Eating, drinking, or smoking should not be allowed win areas where processing of this

product occurs.

(b) Conditions for safe storage No special storage precautions noted.

(c) Incompatible Materials Strong acids, strong bases, strong oxidizers, halogens, and

mercury.

# **SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION**

(a) Occupational Exposure Limits

Component	OSHA Permissible Exposure Limits (PEL)		ACGIH (TLV)
	Total	Respirable	Respirable Fraction
Polyethylene (9002-88-4)	10 mg/m3	5 mg/m3	N/A

Component	OSHA (PEL)	ACGIH (TLV)	IDLH
Copper (7440-50-8)	0.1 mg/m3 (fume)	0.2 mg/m3 (fume)	100 mg/m3 (dust, fume,
	1 mg/m3 (dust/mist)		mist)

(b) Appropriate Engineering Controls If dust is generated through processing, use with adequate

ventilation designed to handle particulates to meet the occupational exposure limits listed in Section 8(a).

(c) Individual protective measures, PPE

Eye/Face Protection Safety glasses with side shields or goggles recommended.

Skin Protection Avoid contact with sharp edges. Cut resistant gloves

recommended.

Respiratory Protection Dust from processing. Use NIOSH approved respiratory

protection if concentrations exceed the occupational exposure

limits listed in Section 8(a).

Thermal Hazards When material is heated, wear gloves to protect against

thermal burns.

#### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

(a) Appearance Solid panel, reddish to dark brown

(b) Odor Odorless

(c) Odor Threshold(d) pHNot applicableNot applicable

(e) Melting Point/Freezing Point 1981°F Copper / 219-239 °F Polyethylene

(f) Initial Boiling Point and Boiling Range Not determined

(g) Flash Point 716 °F

(h) Evaporation Rate(i) Flammability (solid, gas)(j) Upper/Lower FlammabilityNot applicableNot applicable

Explosive Limits Dust clouds may be explosive under certain conditions

(k) Vapor Pressure(l) Vapor DensityNot applicable

(m) Density (specific gravity)
 (n) Solubility
 (o) Partition Coefficient
 2.53
 Insoluble
 Not applicable

(p) Auto Ignition Temperature 752 °F

(q) Decomposition Temperature(r) ViscosityNot determinedNot applicable

# **SECTION 10: STABILITY AND REACTIVITY**

(a) Reactivity The product is stable and non-reactive under normal conditions

of use, storage, and transport.

(b) Chemical Stability Stable under normal conditions of use, storage, and transport.

(c) Possibility of hazardous reactions Hazardous polymerization does not occur.

(d) Conditions to avoid Avoid creating or spreading dust and incompatible materials.(e) Incompatible materials Strong acids, strong bases, strong oxidizers, halogens, and

mercury.

(f) Hazardous decomposition products Carbon monoxide, carbon dioxide, nitrogen oxide, metal oxides,

and fumes. Under certain conditions some aliphatic aldehydes and carboxylic acids may form. Contact with strong acids will

release hydrogen gas.

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

(a) Acute toxicity(b) Skin corrosion/irritationNot classified.Not corrosive.

(c) Serious eye damage/irritation Dust from processing may cause eye irritation.

(d) Respiratory or skin sensitization Dust and fumes from processing may cause respiratory

irritation. Not a skin sensitizer.

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(e) Germ cell mutagenicity
 (f) Carcinogenicity
 (g) Reproductive toxicity
 (h) STOT-single exposure
 (i) STOT-repeated exposure
 Not classified.
 Not classified.

(j) Aspiration hazard Not an aspiration hazard.

(k) Chronic effects Dust and fumes from processing may cause scarring of the

lungs, central nervous system damage.

# **SECTION 12: ECOLOGICAL INFORMATION**

(a) Ecotoxicity No additional information available.

Copper (7440-50-8)	
LC50 Fish 1	<=0.0068 (0.0068-0.0156) mg/l (Exposure time: 96h – species: Pimephales
	promelas)
EC50 Daphnia 1	0.03 mg/l (Exposure time: 48h – species: Daphnia magna [static])
EC50 Other Aquatic	0.0426 (0.0426-0.0535) mg/l (Exposure time: 72h – species:
Organisms 1	Pseudokirchneriella subcapitata [static])
LC50 Fish 2	0.3 mg/l (Exposure time: 96h – species: Pimephales promelas [static])
EC50 Other Aquatic	0.031 (0.031-0.054) mg/l (Exposure time: 96h – species:
Organisms 2	Psuedokirchneriella subcapitata [static])

(b) Persistence and degradability
(c) Bioaccumulative potential
(d) Mobility in soil
No information available.
No information available.

(e) Other adverse effects None known

# **SECTION 13: DISPOSAL CONSIDERATIONS**

Disposal Instructions Reuse or recycle material whenever possible. If reuse or

recycling is not possible, dispose in accordance with

federal, state, and/or local regulations.

#### **SECTION 14: TRANSPORT INFORMATION**

(a)	UN Number	Not applicable
(b)	UN proper shipping name	Not Regulated
(c)	Transport Hazard Class(es)	Not Applicable
(d)	Packing Group	Not Applicable
(e)	Environmental Hazards	Not Applicable
(f)	Transport in Bulk	Not Applicable
(g)	Special Precautions	Not Applicable

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#### **SECTION 15: REGULATORY INFORMATION**

OSHA: This product is not classified as hazardous under the criteria set forth by 29 CFR 1910.1200, Hazard Communication.

Federal and State Regulations: There is no classification data available on carcinogenic properties of this material from EPA, IARC, NTP, OSHA, or ACGIH.

California Proposition 65: WARNING – This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Components of this product are subject to the following regulatory requirements and/or appear on the following associated chemical inventory list(s): Toxic Substance Control Act (TSCA), European Inventory of Existing Commercial Substances (EINECS), Australian Inventory of Chemical Substances (AICS), Domestic Substances List (DSL), Korea Existing Chemicals List (KECL), Philippines Chemical Inventory (PICCS).

CERCLA Hazardous Substance List (40 CFR 302.4)

Copper (CAS 7440-50-8) - Listed

SARA 313 (TRI Reporting)

Copper (CAS 7440-50-8)

#### **SECTION 16: OTHER INFORMATION**

SDS #: ALPO3

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# <<<< END OF SDS>>>>

Product Name: ALPOLIC® / Copper PE