

SAFETY DATA SHEET

Issue Date: 11/7/03 Revision Date: 4/1/21 Revision #: 7 SDS #: ALP03

in accordance with 29 CFR 1910.1200

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
	757-382-5750
(e) Emergency Phone Number:	Chemtrec 1-800-424-9300
SECTION 2: HAZARD(S) IDENTIFICAT	ΓΙΟΝ
(a) Chemical Classification	Not classified as hazardous according to OSHA Hazard
	Communication Standard, 29 CFR 1910.1200.
(b) Signal Word:	Not applicable
(b) Signal Word: Hazard Statement(s):	Not applicable Not applicable

(d) Supplemental Information None

Precautionary Statement(s):

(c) Hazards Not Otherwise Classified

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."

Not applicable

None Known

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%

*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.

Skin Contact Inhalation	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.
Ingestion	Not likely due to form of product.
(b) Most important Symptoms/Effects	
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, 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 	No data available.

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.
(b)	Specific hazards	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,
	fire fighters	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.

- (b) Environmental Precautions
- (c) Methods and materials for containment and cleaning up

Do not flush dust or fines to surface waters, soil, or sanitary sewer system. 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

As sold in the solid form, copper and copper alloys pose no (a) Precautions for safe handling 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	Not applicable
(d) pH	Not 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	Not applicable
(i) Flammability (solid, gas)	Not applicable
(j) Upper/Lower Flammability	Not applicable
Explosive Limits	Dust clouds may be explosive under certain conditions
(k) Vapor Pressure	Not applicable
(I) Vapor Density	Not applicable
(m) Density (specific gravity)	2.53
(n) Solubility	Insoluble
(o) Partition Coefficient	Not applicable
(p) Auto Ignition Temperature	752 °F
(q) Decomposition Temperature	Not determined
(r) Viscosity	Not 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	Not classified.
(b) Skin corrosion/irritation	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.

- (e) Germ cell mutagenicity
- (f) Carcinogenicity
- (g) Reproductive toxicity
- (h) STOT-single exposure
- (i) STOT-repeated exposure
- (j) Aspiration hazard Not an aspiration hazard.
- (k) Chronic effects
- Dust and fumes from processing may cause scarring of the

Not classified.

Not classified.

Not classified.

Not classified.

Not classified.

lungs, central nervous system damage.

SECTION 12: ECOLOGICAL INFORMATION

(a) E	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

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 #: ALP03 Issue Date: 11/7/2003 Revision Date: 9/20/18 Revision #: 6

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