

(a) Product Identifier:

SAFETY DATA SHEET

in accordance with 29 CFR 1910.1200

Issue Date: 11/29/12 Revision Date: 4/1/21 Revision #: 7 SDS #: ALP08

SECTION 1: IDENTIFICATION

ALPOLIC[®]/ fr Copper

(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) IDENTIFICATION

(a) Chemical Classification	Not classified as hazardous according to OSHA Hazard
	Communication Standard, 29 CFR 1910.1200.
(b) Signal Word:	Not applicable
Hazard Statement(s):	Not applicable
Symbol(s):	Not applicable
Precautionary Statement(s):	Not applicable
(c) Hazards Not Otherwise Classified	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	53%
Aluminum Hydroxide	21645-51-2	32%
Polyethylene	9002-88-4	14%
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.

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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.
	Inhalation	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
. ,	by exposure	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

(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
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Component	OSHA Permissible Exposure Limits (PEL)		ACGIH TLV
	Total	Respirable	Respirable Fraction
Polyethylene	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 deigned 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 full 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 limits listed in Section 8(a).

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

(a) Appearance	Solid panel, reddish to dark brown
(b) Odor	Odorless
(c) Odor Threshold	Not applicable
(d	l) 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	811 °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
(n	n) Density (specific gravity)	3.13
(n) Solubility	Insoluble
(c	 Partition Coefficient 	Not applicable
(p	 Auto Ignition Temperature 	837 °F
(c) 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 polymerizations 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	Not classified.
(f) Carcinogenicity	Not classified.
(g) Reproductive toxicity	Not classified.
(h) STOT-single exposure	Not classified.
(i) STOT-repeated exposure	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

) 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	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])	

Not readily biodegradable.

- (b) Persistence and degradability
- (c) Bioaccumulative potential No information available.
- (d) Mobility in soil
- (e) Other adverse effects

No information available. 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

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