

MATERIAL SAFETY DATA SHEET

COPPER

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1. PRODUCT AND COMPANY IDENTIFICATION

POLYONE CORPORATION 33587 Walker Road, Avon Lake, OH 44012

NON-EMERGENCY TELEPHONE	:	Product Stewardship (770) 271-5902
Emergency telephone number	:	CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).
Product name	:	COPPER
Product code	:	CC10031981
Chemical Name	:	Mixture
CAS-No.	:	Mixture
Product Use	:	Industrial Applications

2. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

Components	CAS-No.	Weight %
Iron oxide	1309-37-1	30 - 60
Mica	12001-26-2	30 - 60

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

This mixture has not been evaluated as a whole for health effects. Information provided on health effects of this product is based on the individual components. However, some vapors or contaminants may be released upon heating and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure. See sections 8 and 11 for special precautions.

POTENTIAL HEALTH EFFECTS

Routes of Exposure:	: Inhalation, Skin contact, Ingestion
Acute exposure	
Inhalation Ingestion Eyes Skin	 Resin particles, like other inert materials, can be mechanically irritating. May be harmful if swallowed. Particulates, like other inert materials can be mechanically irritating. Experience shows no unusual dermatitis hazard from routine handling.
Chronic exposure	: Refer to Section 11 for Toxicological Information.
Medical Conditions Aggravated by Exposure:	: None known.



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	4. FIRST AID MEASURES
Inhalation	: Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. When symptoms persist or in all cases of doubt seek medical advice.
Ingestion	: Do not induce vomiting without medical advice. When symptoms persist or in all cases of doubt seek medical advice.
Eyes	: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, seek medical attention.
Skin	: Wash off with soap and plenty of water. If skin irritation persists seel medical attention.
	5. FIRE-FIGHTING MEASURES
Flash point	: Not applicable
Flammable Limits Upper explosion limit Lower explosion limit Autoignition temperature Suitable extinguishing media	 Not applicable Not applicable Not relevant Carbon dioxide blanket, Water spray, dry powder, foam.
Special Fire Fighting Procedures Unusual Fire/Explosion	 Fullface self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants. none
Hazards	6. ACCIDENTAL RELEASE MEASURES
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Personal precautions	: Wear appropriate personal protection during cleanup, such as impervious gloves, boots and coveralls.
Environmental precautions	: Should not be released into the environment. The product should not be allowed to enter drains, water courses or the soil.
Methods for cleaning up	: Clean up promptly by sweeping or vacuum. Package all material in plastic, cardboard or metal containers for disposal. Refer to Section 12 of this MSDS for proper disposal methods.
	7. HANDLING AND STORAGE
Handling	: Take measures to prevent the build up of electrostatic charge. Heat only in areas with appropriate exhaust ventilation.
Storage	: Keep containers dry and tightly closed to avoid moisture absorption

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	a	nd contamination. Keep in a c	lry, cool place.	
8. H	XPOSURE	CONTROLS / PERSONAL	PROTECTION	
Respiratory protection		lo personal respiratory protect usty conditions occur wear ap		
Eye/Face Protection	: S	afety glasses with side-shields	5.	
Hand protection	: P	rotective gloves.		
Skin and body protection	: L	ong sleeved clothing.		
Additional Protective Measures	: S	afety shoes.		
General Hygiene Considerations		landle in accordance with good Vash hands before breaks and		afety practice
Engineering measures		leat only in areas with approp ppropriate exhaust ventilation		Provide
Exposure limit(s)				
Components	Value	Exposure time	Exposure type	List:
Iron oxide	5 mg/m3	Time Weighted Average (TWA):	Dust and fume. as Fe	ACGIH
Mica	3 mg/m3	Time Weighted Average (TWA):	Total dust.	ACGIH
Mica	20 mppcf	PEL:	Total dust.	OSHA
	9. PHYSIC	CAL AND CHEMICAL PRO	OPERTIES	
Form	: Solid	l Evano	oration rate : Not	applicable.
Appearance		1		applicable.
Color	: BRO			determined
				applicable
Odor				applicable
Melting point/range	: Not a	1	: Not	applicable
	: Not a : Insol	applicable pH	: Not	applicable
Melting point/range Boiling Point:	: Insol	applicable pH		applicable
Melting point/range Boiling Point:	: Insol 10. S	applicable pH luble		
Melting point/range Boiling Point: Water solubility	: Insol 10. S : S	applicable pH luble		



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Incompatible Materials	: Inc	mpatible v	vith strong acids and o	oxidizing agents.
Hazardous decompositi products				oxide (CO), oxides of nitrogen nd smoke are all possible.
1			CAL INFORMATIO	-
This mixture has not be health data for the indiv	en evaluated as a	whole for 1	health effects. Expos	ure effects listed are based on exist
<u>Toxicity Overview</u> This product contains th	ne following com	oonents wh	ich in their pure form	have the following characteristics
CAS-No.	Chemical	Jame	Effect	Target Organ
1309-37-1	Iron oxide		Systemic effects	Respiratory system.
12001-26-2	Mica		Systemic effects	Respiratory system.
	12. EC	OLOGIC	AL INFORMATION	1
Persistence and degrada	bility : No	readily bio	odegradable.	
Environmental Toxicity	: Ad	erse ecolog	gical impact is not kno	own or expected under normal use.
Bioaccumulation Potent	tial : Not	inherently	biodegradable.	
Additional advice	: No	lata availal	ble.	
	13. DI	SPOSAL (CONSIDERATIONS	8
Product	gen clas	erator of was	aste material has the r	ed to disposal or incineration. The responsibility for proper waste posal in accordance with nd local regulations.
Contaminated packagin	has and	the response	sibility for proper was accordance with app	e. The generator of waste material te classification, transportation licable federal, state/provincial
	14. T	ANSPOR	T INFORMATION	
U.S. DOT Classification	n : No	regulated f	for transportation.	
		-	-	
ICAO/IATA	: Not	regulated f	for transportation.	

15. REGULATORY INFORMATION





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US Regulations:	
OSHA Status	: Classified as hazardous based on components.
TSCA Status	: All components of this product are listed on or exempt from the TSC. Inventory.
US. EPA CERCLA Hazardous	Substances (40 CFR 302)
Not applicable	
California Proposition	: This product does not contain a substance listed by California Prop 6.
California Proposition 65	: This product does not contain a substance listed by California Prop 6.
SARA Title III Section 302 Ext	remely Hazardous Substance
Not applicable	
SARA Title III Section 313 Tox	ic Chemicals:
	Not applicable
Canadian Regulations:	
WHMIS Classification	: Not controlled.
DSL	: All components of this product are on the Canadian Domestic Substances List (DSL) or are exempt.
National Inventories:	
Australia AICS	: Listed.
China IECS	: Listed.
Europe EINECS	: Not determined.
Japan ENCS	: Not determined.
Korea KECI	: Listed.
Philippines PICCS	: Listed.
<u> </u>	16. OTHER INFORMATION





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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.