

Material Safety Data Sheet

NFPA HMIS / WHMIS PPE Transport Symbol

Not regulated

Revision Date 02-Sep-2009

Revision Number 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name

Copper Metallic Powder

Product Code(s)

10343A

Product Type

Manufactured by:

Manufactured For:

The Easthill Group Dba/The Eastwood Company

263 Shoemaker Road Pottstown,PA 19464

Emergency Contact Number

USA & Canada: 800-345-1178 Outside USA: 610-323-2200

Telephone for Information

Emergency contact: Chem-Trec: 800-424-9300

2. HAZARDS IDENTIFICATION

Emergency Overview

May cause skin and eye irritation

Appearance Powder

Physical State Solid/Powder

Odor Odorless

OSHA Regulatory Status

This material is not considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200)

Potential Health Effects

Acute Toxicity

Eyes Skin Inhalation Ingestion No known effect based on information supplied No known effect based on information supplied

No known effect based on information supplied No known effect based on information supplied

Chronic Effects No known effect

Aggravated Medical Conditions

None known

Environmental Hazard

See Section 12 for additional Ecological Information

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components

Components	CAS-No	Weight %
Barium sulfate	7727-43-7	10-30%
Iron oxide	1309-37-1	1-10%
Titanium Dioxide	13463-67-7	1-10%
Mica	12001-26-2	1-10%
TGIC/1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3,5- tris(oxiranylmethyl)-	2451-62-9	1-10%
Caprolactam	105-60-2	Less than 1.0%

4. FIRST AID MEASURES

Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes

Skin Contact

Wash skin with soap and water

Inhalation

Move to fresh air

Ingestion

Never give anything by mouth to an unconscious person

Notes to Physician

Treat symptomatically

5. FIRE-FIGHTING MEASURES

Flammable Properties

Powdered material may form explosive dust-air mixtures

Suitable Extinguishing Media

Water spray, dry chemical, carbon dioxide (CO₂), or foam

Hazardous Combustion Products

Carbon oxides

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

NFPA

Health Hazard 0

Flammability 1

Stability 0

Physical and Chemical Hazards N/A

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Wear protective gloves/clothing and eye/face protection

Methods for Containment

Prevent further leakage or spillage if safe to do so

Methods for Cleaning Up

Pick up and transfer to properly labeled containers

7. HANDLING AND STORAGE

STORAGE 7. HANDLING AND

Handling

Handle in accordance with good industrial hygiene and safety practice

Storage

Store in a dry, air conditioned place below 80F

8. **EXPOSURE** CONTROLS PERSONAL PROTECTION

Exposure Guidelines

This product, as supplied, contains the following materials with occupational exposure limits established by the region specific regulatory bodies

Components	ACGIH TLV	OSHA PEL	NIOSH IDLH
Barium sulfate		(vacated) TWA: 5 mg/m ³	TWA: 5 mg/m ³
Iron oxide		TWA: 10 mg/m³ (vacated) TWA: 10 mg/m³	IDLH: 2500 mg/m³ TWA: 5 mg/m³
Titanium Dioxide	TWA: 10 mg/m ³	TWA: 15 mg/m³ (vacated) TWA: 10 mg/m³	IDLH: 5000 mg/m ³
Mica		(vacated) TWA: 3 mg/m ³	IDLH: 1500 mg/m ³ containing <1% quartz TWA: 3 mg/m ³
TGIC/1,3,5-Triazine- 2,4,6(1H,3H,5H)-trione, 1,3,5- tris(oxiranylmethyl)-	TWA: 0.05 mg/m ³		
Caprolactam		(vacated) TWA: 1 mg/m³ (vacated) TWA: 20 mg/m³ (vacated) TWA: 5 ppm (vacated) STEL: 10 ppm (vacated) STEL: 3 mg/m³ (vacated) STEL: 40 mg/m³	TWA: 0.22 ppm TWA: 1 mg/m³ STEL: 3 mg/m³ STEL: 0.66 ppm

Engineering Measures

Showers

Evewash stations Ventilation systems

Personal Protective Equipment

Eye/Face Protection Skin and Body Protection

Eye protection

Wear protective gloves/clothing

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Powder

Odor

Odorless

Not applicable

Physical State

Solid/Powder Not applicable рΗ

Approximately neutral

Flash Point **Boiling Point/Range**

Not applicable

Autoignition Temperature Melting Point/Range

Melting Point/Range 50-70°C

Freezing point

Not applicable

30-70 g/m³

Flammability Limits in Air

No information available

Explosion Limits

Specific Gravity

1.2-1.8

VOC Content

None

HAPS data

Not applicable

10. AND REACTIVITY STABILITY

Stability

Stable under recommended storage conditions

Incompatible Products

None known based on information supplied

Conditions to Avoid

None known based on information supplied

Hazardous Decomposition Products May emit toxic fumes under fire conditions - carbon monoxide, carbon dioxide, nitrogen

oxides, and hydrogen chloride

Hazardous Reactions

Hazardous polymerization does not occur

TOXICOLOGICAL INFORMATION 11.

Acute Toxicity

Product Information

Substances which cause concern for man owing to possible mutagenic effects but for which

the available information is not adequate for making a satisfactory assessment.

Irritation

Repeated or prolonged exposure may cause irritation of eyes and skin

Components	LD50 Oral	LD50 Dermal	LC50 Inhalation
Iron oxide	10000 mg/kg (Rat)		
Titanium Dioxide	10000 mg/kg (Rat)		
TGIC/1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3,5-tris(oxiranylmethyl)-	188 mg/kg (Rat)		
Caprolactam	1155 mg/kg (Rat)	1410 μL/kg (Rabbit) 2000 mg/kg (Rat)	8.16 mg/L (Rat) 4 h

Chronic Toxicity

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen

Components	ACGIH	IARC	NTP	OSHA
Titanium Dioxide		Group 2B		X

ECOLOGICAL INFORMATION 12.

Ecotoxicity

The environmental impact of this product has not been fully investigated

Components	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Caprolactam	h EC50 96 160 mg/L h EC50 72 130 mg/L h EC50 96 160 mg/L	LC50= 1400 mg/L Pimephales promelas 96 h LC50= 930 mg/L Lepomis macrochirus 96 h	EC50 = 4200 mg/L 17 h	EC50 > 500 mg/L 48 h

Components	Log Pow
Caprolactam	= -0.02

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method

Dispose of contents/container in accordance with local regulation

14. TRANSPORT INFORMATION

DOT

Not regulated

TDG

Not regulated

MEX

Not regulated

IATA

Not regulated

IMDG/IMO

Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA

Complies

DSL

Complies

EINECS/ELINCS

Does not Comply Does not Comply

ENCS IECSC

Complies

KECL

Does not Comply

PICCS

Does not Comply

AICS

Complies

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains the following chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Components	CAS-No	Weight %	SARA 313 - Threshold Values %
Barium sulfate	7727-43-7	10-30%	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

FOOTER PAGE

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990

CERCLA

This material, as supplied, contains the following substance(s) regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Components	Massachusetts	. New Jersey	Pennsylvania	Illinois	Rhode Island
Barium sulfate	X	X	X		X
Iron oxide	Χ	Χ	X		X
Titanium Dioxide	X	X	X		X .
Mica	X	X	X		X
TGIC/1,3,5-Triazine- 2,4,6(1H,3H,5H)-trione, 1,3,5- tris(oxiranylmethyl)-		X			
Caprolactam	X	X	X	X	X

International Regulations

Components	Carcinogen Status	Exposure Limits
Barium sulfate		Mexico: TWA= 0.5 mg/m ³
Iron oxide		Mexico: TWA= 5 mg/m ³
		Mexico: STEL= 10 mg/m ³
Titanium Dioxide		Mexico: TWA= 10 mg/m ³
		Mexico: STEL= 20 mg/m ³
Mica		Mexico: TWA= 3 mg/m ³
Caprolactam		Mexico: TWA= 20 mg/m ³
·		Mexico: TWA= 5 ppm
-		Mexico: TWA= 1 mg/m ³
		Mexico: STEL= 40 mg/m ³
		Mexico: STEL= 10 ppm
·		Mexico: STEL= 3 mg/m ³

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

Not determined

16. OTHER INFORMATION

Prepared By

Verified by Quality Control Department

Revision Date

02-Sep-2009

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The information provided on this MSDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of MSDS