



MATERIAL SAFETY DATA SHEET

Form WI04-11A Rev. 1

Part Number(s):
03-925-04

Product Name: Colboly Blue

Release Date: April 13, 2007

1. Product and Company Identification

Trade Name & Synonyms Colboly Blue	MSDS Code Number Refer to part number
Chemical Name Metal, colboly blue, wire products-14" lengths.	Manufacture / Distributor GAC International Inc.
C.A.S. Number NA	Address 355 Knickerbocker Ave. Bohemia, NY USA 11716
Grades or Minor Variant Identities NA	Information Telephone Number 1-631-419-1700
Product Use (for Canada) NA	Emergency Telephone Number 1-631-419-1700

2. Composition of Ingredients

Hazardous Components	C.A.S. Number	Exposure Limits	%
Cobalt	NA	NA	39.80
Chromium	NA	NA	19.90
Bickel	NA	NA	15.4
Iron *	NA	NA	Balance
Molybdenum	NA	NA	7.10
Manganese	NA	NA	1.97
Carbon	NA	NA	.061
Silicone	NA	NA	.478
Phosphorus	NA	NA	.005
Sulfur	NA	NA	.0015
Beryllium	NA	NA	.0002
* These substances are regulated in their oxide form.	NA	NA	

3. Hazard Identification

Emergency Overview

Exposure to specialty steel allows occurs primarily from inhalation of dust or fumes. However, constituents of these allows may cause effects directly upon the skin or eyes. Certain constituents may also be harmful if swallowed.

Specialty steel alloys are generally not considered hazardous in the form shipped (solid, bars, billets wire, etc.), however, if your process involves grinding, melting, welding, cutting, or any other process that causes a release of dust or fume, hazardous levels pf dust or fume of the constituents of these alloys could be generated. The following is a list of potential health effects for all hazardous elements that are possibly contained in any of our alloys. Please refer to section 11 titles "hazardous ingredients" for a list of those specific elements contained in this particular alloy.

Routes of Exposure	Signs and Symptoms	Single, Repeated, or Lifetime Exposure	Severity (Mild, Moderate, Severe)	Acute and Chronic Health Effect(s)	Target Organ(s)
Eye	Iron oxide: Has caused irritation of the eyes, nose and skin and excremental animals. It may have the same effect on humans. Molybdenum: Oxides of molybdenum has caused irritation of the eyes, nose, and throat, weight loss, and digestive disturbances in experimental animals.	NA	NA	NA	NA
Skin	Iron oxide: Has caused irritation of the eyes, nose and skin and excremental animals. It may have the same effect on humans. Nickel: Skin contact can also cause an allergic skin rash.	NA	NA	NA	NA
Inhalation	Iron oxide: Has caused irritation of the eyes, nose and skin and excremental animals. It may have the same effect on humans. Chromium: Ferrochrome alloys have been	NA	NA	NA	NA



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	<p>associated with lung changes in workers exposed to these alloys.</p> <p>Cobalt: Fume or dust causes irritation of the nose and throat and may cause an allergic skin rash. Also has been reported to cause respiratory disease with symptoms ranging from cough and shortness of breath to permanent disability and death. The symptoms frequently go away when exposure has stopped, but sometimes the symptoms progress after exposure has ceased.</p> <p>Manganese: Inhalation of manganese fume may cause "metal fume fever" with symptoms of chill, fever, nausea, cough, dry throat, weakness, muscle aches, and a sweet or metallic taste in the mouth. Prolonged or repeated exposure may affect the nervous system, with difficulty in walking and balancing, weakness or cramps in the legs. Hoarseness of the voice, trouble with memory or judgment, unstable emotions or unusual irritability. The respiratory system may also be affected by pneumonia like illness with symptoms of coughing, fever, chills, body ache, chest pain and other common signs of pneumonia.</p> <p>Nickel: Fumes are respiratory irritants and may cause respiratory disease. Nickel and its compounds have been reported to cause cancer of the lungs and sinuses.</p>				
Ingestion	NA	NA	NA	NA	NA
Other	NA	NA	NA	NA	NA
Medical Conditions Aggravated by Exposure					
NA					
Carcinogenicity (IARC, NTP)					
NA					
Potential Environmental Effects					
NA					

4. First Aid Measures

Routes of Exposure	First Aid Instructions	Immediate Medical Attention	Delayed Effects
Eye	Flush thoroughly with water.	Consult a physician.	NA
Skin	Wash with water and mild detergent.	NA	NA
Inhalation	Move person to fresh air until recovered.	Consult a physician.	NA
Ingestion	While ingestion of large quantities to cause healthy effects is unlikely, consult a physician if it occurs.	NA	NA
Other	NA	NA	NA
Note to Physicians (Treatment, Testing, and Monitoring)			
NA			



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5. Fire and Explosion Data

Flashpoint & Method: °C / °F N/A	Flammable (Explosive) Limits in Air LEL: NA UEL: NA	Autoignition Temperature N/A	Other NA
Flame Propagation or Burning NA	Properties Contributing to Fire Intensity NA	Flammability Classification Health- , Flammability- , Reactivity- NA	
Extinguishing Media N/A		Extinguishing Media to Avoid N/A	
Protection and Procedures for Firefighters N/A			
Unusual Fire and Explosion Hazards NA			

6. Accidental Release Measures

Containment Techniques Environmental precautions: No hazard. Ventilation: If your process causes a release of dust or fume, use local and general exhaust ventilation to keep airborne concentrations of dust or fumes below the TLV. Respiratory protection: If your process causes a release of dust or fume in excess of the permissible exposure limit, use approved respirators for protection against airborne dust or fumes should be worn. Respirators should be used in accordance with 29CFR 1910.134. Protective equipment: Gloves and barrier creams may be necessary to prevent skin sensitization and dermatitis. If your process involves grinding or any other action that causes the release of dust or fumes, approved safety glasses or goggles should be worn.
Spill/Leak Clean-Up Procedures and Equipment N/A
Evacuation Procedures NA
Special Instructions NA
Reporting Requirements NA

7. Handling and Storage

Handling Practices and Warnings See section 8.
Storage Practices and Warnings (°C / °F). N/A. Storage conditions: N/A



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8. Exposure Control/Personal Protection

Ventilation If your process causes a release of dust or fume, use local and general exhaust ventilation to keep airborne concentrations of dust or fumes below the TLV.		Other Engineering Controls NA
Routes of Entry:	Personal Protective Equipment (PPE) for Normal Use:	PPE for Emergencies:
Eye/Face	If your process involves grinding or any other action that causes the release of dust or fumes, approved safety glasses or goggles should be worn.	NA
Skin	Protective equipment: Gloves and barrier creams may be necessary to prevent skin sensitization and dermatitis.	NA
Inhalation	Respiratory protection: If your process causes a release of dust or fume in excess of the permissible exposure limit, use approved respirators for protection against airborne dust or fumes should be worn. Respirators should be used in accordance with 29CFR 1910.134.	NA
General Hygiene Considerations and Work Practices NA		
Protective Measures During Repair and Maintenance of Contaminated Equipment NA		
Other Protective Measures and Equipment NA		

9. Physical and Chemical Characteristics

Appearance Form: Wire. Change of state: Liquid.		Odor Odorless
Normal Physical State: <input type="checkbox"/> Liquid <input type="checkbox"/> Gas <input checked="" type="checkbox"/> Solid <input type="checkbox"/> ____ (Other)		Boiling Point °C / °F HIGH Melting Point °C / 2400F to 2800 °F Freezing Point °C / °F NA
Specific Gravity or Density (H₂O=1) 7.5 to 8.5	Solubility in Water Insoluble. Organic solvent (20 °C): Insoluble.	pH N/A
Vapor Pressure (mm Hg @ 20°C) Nil	Vapor Density (AIR= 1) NA	Evaporation Rate (Butyl Acetate = 1) NA
Other Viscosity (20 °C): Solid		

10. Stability and Reactivity Data

Incompatibility (Materials to Avoid) None	
Hazardous Products Produced During Decomposition None. Thermal decomposition: None.	
Hazardous Polymerization? <input type="checkbox"/> May Occur <input type="checkbox"/> May Not Occur NA	Conditions to Avoid °C / °F None
Stability? <input type="checkbox"/> Stable <input type="checkbox"/> Unstable NA	Conditions to Avoid °C / °F None



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11. Toxicological Information

Toxicity Data, Epidemiology Studies, Carcinogenicity, Neurological Effects, Genetic or Reproductive Effects, or Structure Activity Data

Oral toxicity: Reference step 3 and step 6.

Inhalation: Reference step and step 6.

Skin irritation: Reference step 3 and step 6.

Sensitization: Reference step and step 6.

Eye irritation: Reference step 3 and step 6.

Further details: None.

12. Ecological Information

Toxicity, Environmental Fate, Physical/Chemical Data, or Other Data Supporting Environmental Hazard Statements

Acute toxicity in Fish (LC-50/ 48 h): Not defined.

Bacteria toxicity (EC-0): Not defined.

Biodegradability: Not defined.

Further details:

13. Disposal Considerations

Regulations

Product: N/A

Packaging: N/A

Waste disposal code: N/A

Properties (Physical/Chemical) Affecting Disposal

NA

14. Transport Information

Regulated for shipping?

Yes No NA

Proper Shipping Name

Colboloy blue

Packing Group

NA

Do changes in quantity, packaging, or shipment method change product classification?

Yes No NA

Hazard Class

NA

Identification Number

NA

Other

Overland transport ADR/RID/GGVS/GGVE: N/A

Sea transport GGVSEA/IMDG-code: N/A

Air transport ICAO/IATA-DGR: N/A

Inland waterway transport ADNR: N/A

Further details: Product is not considered dangerous for transport.



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15. Regulatory Information

Federal Regulations

Preparation as defined by the (German) Chemical Act (dated 4/3/1990).

Labeling: N/A

Product contains:

Danger symbol:

R-Sentences R36/37/38:

S-Sentence S26:

S-Sentences S28:

National regulation:

VbF:

TA-Air:

Water pollution 1:

International Regulations

NA

Other

NA

16. Other Information

Supplier Number: 16/03

Supplier Release: NA

N/A = not applicable. NA = not available, N/E = not established. N/D = not determined.