



Issuing Date 12/13/2011

Revision Number 0

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name COPPER B

Product Code(s) 6368

Synonyms none

Recommended Use Test kit reagent. Laboratory chemicals. Industrial (not for food or food contact use).

Company LaMotte Company, Inc.
802 Washington Avenue
P.O. Box 329
Chestertown, MD 21620
USA

Emergency Telephone Number 24 Hour Emergency Number (CHEM-TEL):
USA, Canada, Puerto Rico 1-800-255-3924
Outside North American Continent (Call collect) 813-248-0585

2. HAZARDS IDENTIFICATION

WARNING!

Emergency Overview

Flammable liquid and vapor
Harmful if swallowed or inhaled
May be harmful if absorbed through the skin
Vapor is irritating to eyes and respiratory tract
May cause skin irritation and/or dermatitis

Appearance Clear, colorless

Physical State Liquid

Odor Rubbing alcohol, Alcohol

Potential Health Effects

Principle Routes of Exposure Eye contact, Skin contact, Inhalation, Ingestion.

Acute Toxicity

Eyes

Vapors irritate the eyes. Liquid may cause severe irritation and possible eye damage.

Skin

May be absorbed through the skin in harmful amounts. Irritating to skin. Prolonged skin contact may defat the skin and produce dermatitis.

Inhalation

Inhalation of vapor causes irritation of respiratory system. May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination.

Ingestion

Harmful if swallowed. May cause drowsiness and dizziness. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic Effects

Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Ethanedioic acid, bis(cyclohexylidenehydrazide)	370-81-0	0.4
Isopropyl alcohol	67-63-0	50
Water	7732-18-5	to 100%

4. FIRST AID MEASURES

General Advice	Do not get in eyes, on skin, or on clothing.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.
Skin Contact	Wash off immediately with soap and plenty of water for at least 15 minutes while removing all contaminated clothing and shoes. If skin irritation persists, call a physician.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and contact emergency personnel.
Ingestion	Drink large quantity of water. Drink plenty of water. Never give anything by mouth to an unconscious person. Get medical attention.
Protection of First-aiders	Use personal protective equipment. See Section 8 for more detail. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

5. FIRE-FIGHTING MEASURES

Flash Point	18.3°C (64°F) CC for 50% Isopropyl Alcohol			
Suitable Extinguishing Media	CO ₂ , dry chemical, dry sand, alcohol-resistant foam.			
Explosion Data				
Specific Hazards Arising from the Chemical	Vapors may travel to source of ignition and flash back.			
NFPA	Health Hazard 1	Flammability 3	Stability 0	Physical and Chemical Hazards -
HMIS	Health Hazard 2	Flammability 3	Stability 0	

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Refer to Section 8. Avoid contact with skin, eyes, and clothing.
Methods for Containment	Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).
Methods for Cleaning Up	Use personal protective equipment. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13). Following product recovery, flush area with water.

7. HANDLING AND STORAGE

Handling	Handle in accordance with good industrial hygiene and safety practice. Prevent contact with skin, eyes, and clothing. Do not ingest. Do not eat, drink, or smoke when using this product. Keep away from heat, sparks and open flame. No smoking.
Storage	Keep containers tightly closed in a dry, cool, and well-ventilated place. Store away from strong acids and oxidizers. Keep away from heat and sources of ignition. Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethanedioic acid, bis(cyclohexylidenehydrazide) 370-81-0	None Known	None Known	None Known
Isopropyl alcohol 67-63-0	= 400 ppm STEL TWA: 200 ppm	TWA: 980 mg/m ³ TWA: 400 ppm	IDLH: 2000 ppm TWA: 400 ppm TWA: 980 mg/m ³ STEL: 1225 mg/m ³ STEL: 500 ppm
Water 7732-18-5	None Known	None Known	None Known

NIOSH IDLH: Immediately Dangerous to Life or Health

Engineering Measures	Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.
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Personal Protective Equipment

Eye/Face Protection

Safety glasses with side-shields.

Skin and Body Protection

Gloves & Lab Coat. Neoprene and nitrile rubber are recommended materials.

Respiratory Protection

Use only with adequate ventilation. In case of insufficient ventilation wear suitable respiratory equipment.

Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.
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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, colorless	Odor	Rubbing alcohol, Alcohol
Physical State	Liquid	pH	Not applicable
Flash Point	18.3°C (64°F) CC for 50% Isopropyl Alcohol	Autoignition Temperature	425°C (797°F) for Isopropanol
Boiling Point/Range	No data available	Freezing Point	No information available
		Flammability Limits in Air	For Pure Isopropyl Alcohol
		Upper	12
		Lower	2
Vapor Pressure	No data available	Vapor Density	No data available

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions of use and storage. Heat and sunlight can contribute to instability.
Incompatible Products	Strong acids. Strong oxidizing agents.
Conditions to Avoid	Heat, flames and sparks. Incompatible products.

Hazardous Decomposition Products May produce the following when heated to decomposition: Carbon oxides (COx).

Hazardous Polymerization Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ethanedioic acid, bis(cyclohexylidenehydrazide)	None Known	None Known	None Known
Isopropyl alcohol	4396 mg/kg (Rat)	12800 mg/kg (Rabbit) 12800 mg/kg (Rat)	72.6 mg/L (Rat) 4 h
Water	90 mL/kg (Rat)	None Known	None Known

Chronic Toxicity

Chronic Toxicity Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitization of susceptible persons.

Chemical Name	ACGIH	IARC	NTP	OSHA
Ethanedioic acid, bis(cyclohexylidenehydrazide)	None Known	None Known	None Known	None Known
Isopropyl alcohol	None Known	Group 1	None Known	X
Water	None Known	None Known	None Known	None Known

IARC: (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

OSHA: (Occupational Safety & Health Administration)

X - Present

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors.

Chemical Name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
Ethanedioic acid, bis(cyclohexylidenehydrazide)	None Known	None Known	None Known
Isopropyl alcohol	None Known	None Known	None Known
Water	None Known	None Known	None Known

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Ethanedioic acid, bis(cyclohexylidenehydrazide)	None Known	None Known	None Known	None Known
Isopropyl alcohol	EC50 > 1000 mg/L 72 h EC50 > 1000 mg/L 96 h	LC50= 61200 mg/L Pimephales promelas 96 h LC50= 94900 mg/L Pimephales promelas 96 h LC50= 9640 mg/L Pimephales promelas 96 h	EC50 = 35390 mg/L 5 min	EC50 = 13299 mg/L 48 h
Water	None Known	None Known	None Known	None Known

Persistence and Degradability

Isopropyl alcohol: When released into the soil or water, this material is expected to quickly evaporate. When released into the soil or water, this material may biodegrade to a moderate extent. When released into the water or air, this material is expected to have a half-life between 1 and 10 days. When released into the air, this material is expected to be readily degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material may be removed from the atmosphere to a moderate extent by wet deposition.

Bioaccumulation/Accumulation

This material is not expected to significantly bioaccumulate.

Chemical Name	Log Pow
Ethanedioic acid, bis(cyclohexylidenehydrazide)	None Known
Isopropyl alcohol	= 0.05 25 °C
Water	None Known

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method

Dispose of in accordance with local regulations.

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Ethanedioic acid, bis(cyclohexylidenehydrazide) - 370-81-0	None Known	None Known	None Known	None Known
Isopropyl alcohol - 67-63-0	None Known	None Known	None Known	None Known
Water - 7732-18-5	None Known	None Known	None Known	None Known

California Waste Status. This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
Isopropyl alcohol	Toxic, Ignitable

14. TRANSPORT INFORMATION**DOT**

Proper Shipping Name	ISOPROPANOL
Hazard Class	3
UN-No	1219
Packing Group	II

IATA

UN-No	1219
Proper Shipping Name	ISOPROPANOL
Hazard Class	3
Packing Group	II

IMDG/IMO

Proper Shipping Name	ISOPROPANOL
Hazard Class	3
UN-No	1219
Packing Group	II

15. REGULATORY INFORMATION

International Inventories

Component	TSCA	DSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Ethanedioic acid, bis(cyclohexylidenehydrazide) 370-81-0 (0.4)	Present	X	X	ENCS	IECSC	KECL	PICCS	X
Isopropyl alcohol 67-63-0 (50)	Present	X	X	2-207	X	KE-29363	X	X
Water 7732-18-5 (to 100%)	Present	X	X	ENCS	X	KE-35400	X	X

U.S. Federal Regulations**SARA 313**

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

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Ethanedioic acid, bis(cyclohexylidenehydrazide)	370-81-0	0.4	None Known
Isopropyl alcohol	67-63-0	50	1.0
Water	7732-18-5	to 100%	None Known

SARA 311/312 Hazard Categories

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

Clean Water Act

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Ethanedioic acid, bis(cyclohexylidenehydrazide) 370-81-0 (0.4)	None Known	None Known	None Known	None Known
Isopropyl alcohol 67-63-0 (50)	None Known	None Known	None Known	x
Water 7732-18-5 (to 100%)	None Known	None Known	None Known	None Known

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

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depleters	Class 2 Ozone Depleters
Ethanedioic acid, bis(cyclohexylidenehydrazide)	370-81-0	0.4	None Known	None Known	None Known	None Known
Isopropyl alcohol	67-63-0	50	None Known	None Known	None Known	None Known
Water	7732-18-5	to 100%	None Known	None Known	None Known	None Known

CERCLA

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Ethanedioic acid, bis(cyclohexylidenehydrazide)	None Known	None Known
Isopropyl alcohol	None Known	None Known
Water	None Known	None Known

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

Chemical Name	CAS-No	California Prop. 65
Ethanedioic acid, bis(cyclohexylidenehydrazide)	370-81-0	None Known
Isopropyl alcohol	67-63-0	None Known
Water	7732-18-5	None Known

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Ethanedioic acid, bis(cyclohexylidenehydrazide)	None Known	None Known	None Known	None Known	None Known
Isopropyl alcohol	X	X	X	None Known	X
Water	None Known	None Known	None Known	None Known	None Known

International Regulations

Mexico - Grade

Chemical Name	Carcinogen Status	Exposure Limits
Ethanedioic acid, bis(cyclohexylidenehydrazide)	None Known	None Known
Isopropyl alcohol	None Known	Mexico: TWA= 980 mg/m ³ Mexico: TWA= 400 ppm
Water	None Known	None Known

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.

Component	WHMIS Hazard Class
Ethanedioic acid, bis(cyclohexylidenehydrazide) 370-81-0 (0.4)	Uncontrolled product according to WHMIS classification criteria
Isopropyl alcohol 67-63-0 (50)	1 % B2 D2B
Water 7732-18-5 (to 100%)	Uncontrolled product according to WHMIS classification criteria



Chemical Name	NPRI
Isopropyl alcohol	X

16. OTHER INFORMATION

NFPA	HMIS	PPE	Transport Symbol						
	<table><tr><td>HEALTH</td><td>2</td></tr><tr><td>FLAMMABILITY</td><td>3</td></tr><tr><td>REACTIVITY</td><td>0</td></tr></table>	HEALTH	2	FLAMMABILITY	3	REACTIVITY	0		
HEALTH	2								
FLAMMABILITY	3								
REACTIVITY	0								

Prepared By Regulatory Affairs Department

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Revision Note

Initial Release

Disclaimer

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