

SAFETY DATA SHEET

Part No. P10215CT-A & B (Liquid)

Print Date: 11/14/2018
Revision Date: 9/19/2018
Supersedes Date: 4/27/2018
Issue Date: 4/11/2018
Version: 4.0 (EN)-US
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M-Pro 7 Copper Remover

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 1 - IDENTIFICATION

1.1 Product Identifier

Product Name : M-Pro 7 Copper Remover
Manufacturer Product Number : P10215CT-A & B
Supplier Product Numbers : 070-1150 - 2 fl. oz & 070-1151 - 4 fl. oz

1.2 Other Means of Identification

Other Identifiers : Not Available

1.3 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Recommended Use : Firearms copper remover
Restrictions on Use : None Identified

1.4 Supplier Details

	Manufacturer Details	Supplier Details
Company Name		Bushnell Holdings Inc.
Address		22101 West 167th St., Olathe, KS 66062 - United States
Phone Number		1-800-423-3537
Fax Number		
Email		dangerous.goods@vistaoutdoor.com
Website		

1.5 24 hr Emergency Phone Number

Emergency Number : Emergency Telephone Number (Hazardous Material/Dangerous Goods Transportation Emergency ONLY)
Emergency number: 1-800-424-9300 (Inside US), 01-703-527-3887 (Outside US) - (CHEMTREC, Day or Night)

SECTION 2 - HAZARDS IDENTIFICATION

2.2 Label Elements

This product does not meet the labeling requirements of the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

2.3 Other Hazards Which Do Not Result In Classification

Hazards Not Otherwise Classified : None Identified.

2.4 Unknown acute toxicity

23% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)
23% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)
25.5% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Vapours))

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substance / Mixture

Substance / Mixture : Mixture

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3.2 Composition

Substance name	CAS Number	% wt*	Classification
2-Butoxyethanol	111-76-2	1 - 5	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319
2-(2-Butoxyethoxy)Ethanol	112-34-5	1 - 5	Eye Irrit. 2A, H319

Full text of hazard classes and H-statements : see section 16

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

SECTION 4 - FIRST-AID MEASURES

4.1 Description of First-Aid Measures

General Measures	: If you feel unwell, seek medical advice.
Inhalation	: Remove person to fresh air and keep comfortable for breathing.
Skin Contact	: Wash skin with plenty of water.
Eye Contact	: Rinse eyes with water as a precaution.
Ingestion	: Call a poison center or a doctor if you feel unwell.
First-Aid Responder Protection	: Wear adequate personal protective equipment based on the nature and severity of the emergency.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms of Exposure	: None Identified.
Delayed Effects	: No known delayed effects.
Immediate Effects	: No known immediate effects.
Chronic Effects	: No known chronic effects.
Target Organs	: None Identified.

4.3 Indication of Immediate Medical Attention and Special Treatment

Notes to Physician	: Treat symptomatically.
Specific Treatments/Antidotes	: No Information Available.
Medical Conditions Aggravated	: May aggravate personnel with pre-existing disorders associated with any of the Target Organs.

SECTION 5 - FIRE-FIGHTING MEASURES

5.1 Suitable Extinguishing Media

Extinguishing Media	: Product is non-flammable. Use extinguishing media suitable for surrounding materials.
Unsuitable Media	: Avoid extinguishing media unsuitable for surrounding materials.

5.2 Specific Hazards Arising from the Chemical or Mixture

Hazardous Combustion Products	: Decomposition products may include: oxides of carbon, smoke, vapors. See also Section 10.6.
Specific Hazards During Firefighting	: Contents are non-flammable. No known fire hazards.

5.3 Special Protective Actions for Fire-Fighters

Firefighting Instructions	: Product is non-flammable. Use extinguishing media suitable for surrounding materials.
Protection during Firefighting	: Firemen should wear self-contained breathing apparatus with full face-piece operated in positive pressure mode.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

For Non-Emergency Personnel	: No action should be taken involving any personnel without suitable training. Evacuate surrounding areas.
For Emergency Personnel	: Use personal protection as recommended in Section 8. Observe precautions provided for non-emergency personnel above.

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6.2 Environmental Precautions

Environmental Precautions : Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination.

6.3 Methods and Materials for Containment and Cleaning up

Containment Procedures : Released content may be contained with oil/solvent absorbent pads, booms, and/or absorbents.
Cleanup Procedures : Soak up material with inert absorbent and place in safety containers for proper disposal.
Other Information : Not Available.
Prohibited Materials : Not Available.

SECTION 7 - HANDLING AND STORAGE

7.1 Precautions for Safe Handling

General Handling Precautions : KEEP OUT OF THE REACH OF CHILDREN.
Hygiene Recommendations : Do not eat, drink or smoke when using this product. Wash hands thoroughly after use.

7.2 Conditions for Safe Storage Including Any Incompatibilities

Storage Requirements : Keep containers closed when not in use. Do not store in open or unlabelled containers.
Incompatibilities : Segregate storage away from materials indicated in Section 10.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

2-Butoxyethanol (111-76-2)

ACGIH	ACGIH TWA (mg/m ³)	20 ppm
OSHA	OSHA PEL (TWA) (mg/m ³)	240 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	50 ppm
NIOSH	US IDLH (ppm)	700 ppm
NIOSH	NIOSH REL (TWA) (ppm)	5 ppm
California	California PEL (TWA) (mg/m ³)	97 mg/m ³
California	California PEL (TWA) (ppm)	20 ppm
Biological Exposure Index	Butoxyacetic Acid (BAA) in Urine, End of shift	200 mg/g creatinine

2-(2-Butoxyethoxy)Ethanol (112-34-5)

ACGIH	ACGIH TWA (mg/m ³)	10 ppm
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8.2 Exposure Controls

Engineering Measures : Use only with adequate ventilation. General ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Local exhaust ventilation or an enclosed handling system may be necessary to control air contamination below that of the lowest OEL from the table above.

Personal Protective Equipment

Eye / Face Protection : Safety glasses with side shields are recommended as a minimum for any type of industrial chemical handling.

Hand Protection : Chemical-resistant gloves, tested according to ASTM F903 - 17.

Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to the place of work.

Skin and Body Protection : For brief contact, no precautions other than clean body-covering clothing should be needed.

Respiratory Protection : Respiratory protection is not anticipated to be needed.

Compliance : If needed, compliance with OSHA standard 29 CFR 1910.134 is necessary.

Other Protective Equipment : Safety showers and eye-wash stations should be available in the workplace near where the material will be used.

Environmental Exposure Controls : Avoid release to the environment.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

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9.1 Physical Properties

Boiling Point	> 0.00 °C	Melting / Freezing Point	> -75.00 °C
Flash Point, Liquid	> -18.30 °C		
Explosive Limits	LEL: 0.00 UEL: 24.60 vol %	Autoignition Temperature, Liquid	> 0.00 °C
Flammability	Non-Flammable Liquid	Density	1.001 g/cm ³
Molecular Weight	Not Available	Weight	8.353 lbs/gal
Vapor Pressure	Not Available	pH	Not Available
Vapor Density	Not Available	Evaporation Rate (nBac=1)	Not Available
Viscosity	Not Available	Partition Coefficient (Log Pow)	Not Available
Odor Threshold	Not Available	Refractive Index	Not Available
Physical State	Liquid	Heat Of Combustion	Not Available
Appearance / Color	Clear, Colorless	Water Solubility	Not Available
Odor	Characteristic	Decomposition Temperature	Not Available

9.2 Environmental Properties

Percent Volatile	76.60 % wt	VOC Regulatory	61.63 g/L (0.51 lbs/gal)
Percent VOC	1.25 % wt	VOC Actual	12.54 g/L (0.10 lbs/gal)
Percent HAP	0.00 % wt	HAP Content	0.00 g/L (0.00 lbs/gal)
Global Warming Potential	0.00 GWP	Maximum Incremental Reactivity	0.0870 g O3/g
Ozone Depletion Potential	0.00 ODP		

SECTION 10 - STABILITY AND REACTIVITY

10.1 Reactivity

Reactivity : No specific test data related to reactivity is available for this products or its ingredients.

10.2 Chemical Stability

Chemical Stability : This product is stable.

10.3 Possibility of Hazardous Reactions

Hazardous Reactions : Under normal conditions of storage and use, hazardous reactions are not expected to occur.

10.4 Conditions to Avoid

Conditions to Avoid : None Identified.

10.5 Incompatible Materials

Materials to Avoid : Strong Oxidizing Agents, Strong Acids, Bases, Calcium Hypochlorite, Perchloric Acid.

10.6 Hazardous Decomposition Products

Thermal Decomposition : Aldehydes.

SECTION 11 - TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

2-Butoxyethanol (CAS: 111-76-2 / EC: 203-905-0)

LD50 Oral (Rat)	917 mg/kg (RTECS)
LD50 Dermal (Rabbit)	1060 mg/kg (Sigma-Aldrich)

2-(2-Butoxyethoxy)Ethanol (CAS: 112-34-5 / EC: 203-961-6)

LD50 Oral (Rat)	5660 mg/kg (RTECS)
LD50 Dermal (Rabbit)	4120 mg/kg (IUCLID)

Routes Of Exposure : Eye Contact, Ingestion, Skin Contact, Inhalation, Skin Absorption.

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Delayed and Immediate Effects and Also Chronic Effects from Short and Long Term Exposure	: See Section 4.2
Skin Corrosion/Irritation	: Not classified
Eye Damage/Irritation	: Not classified
Respiratory or Skin Sensitization	: Not classified
Germ Cell Mutagenicity	: Not classified
Reproductive Toxicity	: Not classified
STOT-Single Exposure	: Not classified
STOT-Repeated Exposure	: Not classified
Aspiration Hazard	: Not classified
Carcinogen Data	: The following ingredients are listed as known or suspected carcinogens:

2-Butoxyethanol (CAS: 111-76-2 / EC: 203-905-0)

ACGIH Category A3 - Confirmed animal carcinogen with unknown relevance to humans

SECTION 12 - ECOLOGICAL INFORMATION

12.1 Ecotoxicity and Ecological Properties

2-Butoxyethanol (111-76-2)

LC50 Fish	1490 mg/l Bluegill Sunfish - 96h
LC50 Fish	1474 mg/l Rainbow Trout - 96hr
EC50 Daphnia	1698 - 1940 mg/l Water Flea - 24hr
EC50 Other Aquatic Organisms	1840 mg/l Green Algae - 72hr
Persistence and Degradability	Biodegradability 90% / 28 days.
Biochemical Oxygen Demand	0.71 g O ₂ /g substance
Chemical Oxygen Demand	2.2 g O ₂ /g substance
Theoretical Oxygen Demand	2.305 g O ₂ /g substance
Log Pow	0.81 (Experimental value; BASF test; 25 °C)
Bioaccumulative Potential	Low potential for bioaccumulation (Log Kow < 4).

2-(2-Butoxyethoxy)Ethanol (112-34-5)

LC50 Fish	1300 mg/l Bluegill Sunfish - 96h
EC50 Daphnia	> 100 mg/l Water Flea - 48hr
EC50 Other Aquatic Organisms	> 100 mg/l Green Algae - 96hr
Persistence and Degradability	Readily biodegradable in water. Biodegradable in the soil. No (test) data on mobility of the substance available. Photodegradation in the air.
Biochemical Oxygen Demand	0.25 g O ₂ /g substance
Chemical Oxygen Demand	2.08 g O ₂ /g substance
Theoretical Oxygen Demand	2.173 g O ₂ /g substance
Biodegradation	58 % 28 Days
BCF Fish	0.46 (BCF)
Log Pow	0.56 (Experimental Value)
Bioaccumulative Potential	Low potential for bioaccumulation (Log Kow < 4).
Log Koc	1

SECTION 13 - DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

Waste Disposal	: Although this product is non-hazardous, contamination from a variety of means is possible. Waste stream classification can change with product use and location. It is the responsibility of the user to determine the proper storage, transportation, treatment, and/or disposal methodologies for spent materials and residues at the time of disposition. All waste must be disposed of in compliance with the respective national, federal, state, and/or local regulations.
Waste Disposal Of Packaging	: Consult with your local landfill to determine if empty small containers can be disposed of along with regular trash pickup. For disposal of large containers (typically 10 gallons or larger), or for containers not suitable for landfill, a licensed reconditioner should be used.
Landfill Precautions	: Not Available.
Incineration Precautions	: Not Available.

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SECTION 14 - TRANSPORTATION INFORMATION

14.1 UN Number	DOT (USA)	IATA (AIR)	IMDG (OCEAN)
UN Number :	NONE	NONE	NONE
14.2 UN Proper Shipping Name	DOT (USA)	IATA (AIR)	IMDG (OCEAN)
UN Proper Shipping Name :	Non-Regulated Material	Non-Regulated Material	Non-Regulated Material
14.3 Transport Hazard Class(es)	DOT (USA)	IATA (AIR)	IMDG (OCEAN)
Transport Hazard Class(es) :	None	None	None
EmS Code :	Not Applicable	Not Applicable	Not Applicable
14.4 Packing Group	DOT (USA)	IATA (AIR)	IMDG (OCEAN)
Packing Group :	None	None	None
14.5 Environmental Hazards	DOT (USA)	IATA (AIR)	IMDG (OCEAN)
Marine Pollutant :	No	No	No
14.6 Special Precautions			
Precautions :	None Identified		
14.7 Transport in Bulk			
Remarks :	Not applicable for product as supplied		

SECTION 15 - REGULATORY INFORMATION

15.1 Federal Regulations					
SARA Section 313	<p>: Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <tr> <td style="width: 60%;">cyclohexane</td> <td style="width: 20%;">CAS-No. 110-82-7</td> <td style="width: 20%; text-align: center;">< 1%</td> </tr> </table>	cyclohexane	CAS-No. 110-82-7	< 1%	
cyclohexane	CAS-No. 110-82-7	< 1%			
TSCA Section 12(b)	: This product or mixture is not known to contain a chemical or chemicals subject to the export notification requirements of section 12(b) of the Toxic Substances Control Act (TSCA) and 40 CFR Part 707, subpart D				
CERCLA Reportable Quantity	<p>: Chemical(s) subject to reporting requirements of Section 102 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) if released to the environment at or above the reportable quantity</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <tr> <td style="width: 60%;">cyclohexane</td> <td style="width: 20%;">CAS-No. 110-82-7</td> <td style="width: 20%; text-align: center;">1000 lb</td> </tr> </table>	cyclohexane	CAS-No. 110-82-7	1000 lb	
cyclohexane	CAS-No. 110-82-7	1000 lb			
TSCA Inventory (United States)	: All chemical substances in this product are listed on the Toxic Substances Control Act (TSCA) Inventory or are in compliance with a TSCA Inventory exemption.				
15.2 State Regulations					
California Proposition 65	: This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm				
State Right-to-Know Lists	<p>: The following chemical(s) appear on one or more state RTK (Right to Know) lists as indicated</p> <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <tr> <td style="width: 60%;">2-Butoxyethanol (111-76-2)</td> <td style="width: 40%;"> U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Massachusetts - Right To Know List </td> </tr> <tr> <td>cyclohexane (110-82-7)</td> <td> U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List </td> </tr> </table>	2-Butoxyethanol (111-76-2)	U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Massachusetts - Right To Know List	cyclohexane (110-82-7)	U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List
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SECTION 16 - OTHER INFORMATION

Indication of changes	:	<table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr style="background-color: #e6f2ff;"> <th style="width: 10%;">Section</th> <th style="width: 70%;">Changed item</th> <th style="width: 20%;">Change</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Revision date</td> <td style="text-align: center;">Modified</td> </tr> <tr> <td style="text-align: center;">1</td> <td>Supersedes</td> <td style="text-align: center;">Modified</td> </tr> </tbody> </table>	Section	Changed item	Change	1	Revision date	Modified	1	Supersedes	Modified
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1	Name	Modified
1	Change to Supplier Details	Modified
3	Composition/Information on ingredients	Modified
9	Specific gravity / density	Modified

Full Text of H-Statements

H Code	H Phrase
H227	Combustible liquid
H302	Harmful if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled

Disclaimer of Liability

The information contained herein is based upon data provided to us by our suppliers, and reflects our best judgement. However, no warranty of merchantability, fitness for any use, or any other warranty or guarantee is expressed or implied regarding the accuracy of such data, or the results to be obtained from use thereof. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar, we do not assume any responsibility for the results of such application. This information is furnished upon the condition that the persons receiving it shall make their own determinations of the suitability of the material for any particular use. Although certain hazards are described herein, we cannot guarantee these are the only hazards that exist.