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Masterchem Industries LLC

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SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name:	**Hammerite® Brush Grade Smooth Enamel Dark Green**
Product Code:	44230, 46230
MSDS Manufacturer Number:	44230, 46230
Manufacturer Name:	Masterchem Industries LLC
Address:	3135 Old Highway M Imperial, MO 63052-2834
General Phone Number:	(636) 942-2510
General Fax Number:	(636) 942-3663
Customer Service Phone Number:	(800) 325-3552
CHEMTREC:	For emergencies in the US, call CHEMTREC: 800-424-9300
Canutec:	In Canada, call CANUTEC: (613) 996-6666 (call collect)
MSDS Creation Date:	June 02, 2006
MSDS Revision Date:	June 02, 2010
MSDS Format:	According to ANSI Z400.1-2004

NFPA

NA

HMIS

Health Hazard	1
Fire Hazard	3
Reactivity	**0**
Personal Protection	**x**

* **Chronic Health Effects**

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Ingredient Percent
Acetone	67-64-1	1-5 by weight
Polychloro copper phthalocyanine (as Cu)	1328-53-6	1-5 by weight
2-Butoxyethanol	111-76-2	0.1-1 by weight
Amorphous silica	7631-86-9	0.1-1 by weight
Ethyl Benzene	100-41-4	5-10 by weight
Titanium dioxide	13463-67-7	0.1-1 by weight
Xylene	1330-20-7	10-30 by weight
Light aromatic solvent naphtha	64742-95-6	1-5 by weight
N-butyl alcohol	71-36-3	1-5 by weight
Non-hazardous ingredients		30-60 by weight

SECTION 3 - HAZARDS IDENTIFICATION

Emergency Overview:	Flammable. Irritant.
Potential Health Effects:	
Eye:	May cause irritation.
Skin:	May cause irritation.

Inhalation:	Prolonged or excessive inhalation may cause respiratory tract irritation.
Ingestion:	Harmful if swallowed. Ingestion can cause nausea, vomiting, diarrhea and gastrointestinal irritation.
Chronic Health Effects:	Prolonged or repeated contact can result in defatting and drying of the skin, which may result in skin irritation and dermatitis (rash). Repeated or prolonged inhalation may cause toxic effects.
Signs/Symptoms:	Overexposure can cause headaches, dizziness, nausea, and vomiting.
Target Organs:	Eyes. Skin. Respiratory system. Digestive system. Central nervous system. Kidney.
Aggravation of Pre-Existing Conditions:	May aggravate pre-existing respiratory disorders, allergy, eczema, or skin conditions.

SECTION 4 - FIRST AID MEASURES

Eye Contact:	Immediately flush eyes with plenty of water for 15 to 20 minutes. Get medical attention, if irritation or symptoms of overexposure persists.
Skin Contact:	Immediately wash skin with soap and plenty of water. Get medical attention if irritation develops or persists.
Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.
Ingestion:	If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.
Other First Aid:	Due to possible aspiration into the lungs, DO NOT induce vomiting if ingested. Provide a glass of water to dilute the material in the stomach. If vomiting occurs naturally, have the person lean forward to reduce the risk of aspiration.

SECTION 5 - FIRE FIGHTING MEASURES

Flammable Properties:	Flammable liquid.
Flash Point:	50°F (10°C)
Flash Point Method:	PMCC
Lower Flammable/Explosive Limit:	1%
Upper Flammable/Explosive Limit:	7%
Fire Fighting Instructions:	Flammable. Cool fire-exposed containers using water spray.
Extinguishing Media:	Use alcohol resistant foam, carbon dioxide, dry chemical, or water fog or spray when fighting fires involving this material.
Protective Equipment:	As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear.
Unusual Fire Hazards:	Flammable liquid. Vapors can form an ignitable mixture with air. Vapors can flow along surfaces to a distant ignition source and flash back.

NFPA Ratings:

NFPA Health:	1
NFPA Flammability:	3
NFPA Reactivity:	0
NFPA Other:	NA

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personnel Precautions:	Use proper personal protective equipment as listed in section 8.
Environmental Precautions:	Avoid runoff into storm sewers, ditches, and waterways.

Spill Cleanup Measures:	Remove all sources of ignition. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Provide ventilation. Collect spill with a non-sparking tool. Place into a suitable container for disposal.

SECTION 7 - HANDLING and STORAGE

Handling:	Use with adequate ventilation. Avoid breathing vapor and contact with eyes, skin and clothing. Material will accumulate static charges which may cause an electrical spark (ignition source). Use proper grounding procedures.
Storage:	Store in a cool, dry, well ventilated area away from sources of heat, combustible materials, and incompatible substances. Keep container tightly closed when not in use.
Work Practices:	To reduce potential for static discharge, bond and ground containers when transferring material.
Special Handling Procedures:	Do not reuse containers without proper cleaning or reconditioning.
Hygiene Practices:	Wash thoroughly after handling. Avoid contact with eyes and skin. Avoid inhaling vapor or mist.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION - EXPOSURE GUIDELINES

Engineering Controls:	Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.
Eye/Face Protection:	Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166.
Skin Protection Description:	Chemical-resistant gloves and chemical goggles, face-shield and synthetic apron or coveralls should be used to prevent contact with eyes, skin or clothing.
Respiratory Protection:	A NIOSH approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.
Other Protective:	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

EXPOSURE GUIDELINES

Acetone :	
Guideline ACGIH:	TLV-TWA: 500 ppm TLV-STEL: 750 ppm
Guideline OSHA:	OSHA-TWA: 1000 ppm
2-Butoxyethanol :	
Guideline ACGIH:	TLV-TWA: 20 ppm
Guideline OSHA:	OSHA-TWA: 50 ppm
Ethyl Benzene :	
Guideline ACGIH:	TLV-TWA: 100 ppm TLV-STEL: 125 ppm
Guideline OSHA:	OSHA-TWA: 100 ppm
Titanium dioxide :	
Guideline ACGIH:	TLV-TWA: 10 mg/m3
Guideline OSHA:	OSHA-TWA: 15 mg/m3
Xylene :	
Guideline ACGIH:	TLV-TWA: 100 ppm TLV-STEL: 150 ppm
Guideline OSHA:	OSHA-TWA: 100 ppm

N-butyl alcohol :

Guideline ACGIH:	TLV-TWA: 20 ppm
Guideline OSHA:	OSHA-TWA: 100 ppm

SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

Physical State Appearance:	Liquid.
Color:	Green.
Boiling Point:	No Data
Melting Point:	No Data
Density:	8 - 10 Lbs./gal.
Vapor Density:	Greater than 1 (Air = 1).
pH:	No Data
Molecular Formula:	Mixture
Molecular Weight:	Mixture
Flash Point:	50°F (10°C)
Flash Point Method:	PMCC

SECTION 10 - STABILITY and REACTIVITY

Chemical Stability:	Stable under normal temperatures and pressures.
Hazardous Polymerization:	Not reported.
Conditions to Avoid:	Heat, flames, ignition sources, and sparks. Incompatible materials. Freezing or temperatures below 32 deg. F.
Incompatible Materials:	Oxidizing agents. Strong acids and alkalis.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acetone :

Eye:	Eye - Rabbit; Standard Draize test. : 10 uL - mild (RTECS)
Skin:	Skin - Guinea pig; LD50: >9400 uL/kg - Details of toxic effects not reported other than lethal dose value. (RTECS)
Inhalation:	Inhalation - Rat LC50: 50100 mg/m3/8H - [Details of toxic effects not reported other than lethal dose value Inhalation - Mouse LC50: 44 gm/m3/4H - Details of toxic effects not reported other than lethal dose value. (RTECS)
Ingestion:	Ingestion - Rat LD50: 5800 mg/kg - Behavioral - Altered sleep time (including change in righting reflex) Behavioral - Tremor Ingestion - Mouse LD50: 3 gm/kg - [Details of toxic effects not reported other than lethal dose value. (RTECS)

2-Butoxyethanol :

Eye:	Eye - Rabbit; Standard Draize test. : 100 mg; severe. Eye - Rabbit; Standard Draize test. : 100 mg/24H; Moderate. (RTECS)
Skin:	Skin - Rabbit; Open irritation test : 500 mg; mild. Skin - Rabbit TDLo: 0.56 ml/kg/1H; Blood - Other hemolysis with or without anemia Liver - Other changes Kidney, Ureter, Bladder - Other changes (RTECS)
Inhalation:	Inhalation - Rat LC50: 2900 mg/m3/7H; Liver - Other changes Kidney, Ureter, Bladder - Other changes Blood - Other hemolysis with or without anemia Inhalation - Mouse LC50: 700 ppm/7H; Behavioral - Analgesia Lungs, Thorax, or Respiration - Dyspnea Kidney, Ureter, Bladder - Hematuria. (RTECS)

Ingestion:	Ingestion - Rat LD50: 470 mg/kg; Details of toxic effects not reported other than lethal dose value Ingestion - Rat LD50: 917 mg/kg; Liver - Other changes Kidney, Ureter, Bladder - Other changes Blood - - Other hemolysis with or without anemia. (RTECS)
Carcinogenicity:	IARC: Group 3: Unclassifiable as to carcinogenicity to humans.

Amorphous silica :

RTECS Number:	VV7565000
Eye:	Eye - Rabbit; Standard Draize test. : 25 mg/24H; mild. (RTECS)
Inhalation:	Inhalation - Rat LCLo: 2190 mg/m3/4H; Lungs, Thorax, or Respiration - Dyspnea (RTECS)
Ingestion:	Ingestion - Rat LDLo: 5 gm/kg; Nutritional and Gross Metabolic - Other changes (RTECS)
Carcinogenicity:	IARC: Group 3: Unclassifiable as to carcinogenicity to humans.

Ethyl Benzene :

Eye:	Eye - Rabbit; Standard Draize test. : 500 mg; severe. (RTECS)
Skin:	Skin - Rabbit; Open irritation test: 15 mg/24H; mild . (RTECS)
Inhalation:	Inhalation - Rat LC50: 55000 mg/m3/2H; Details of toxic effects not reported other than lethal dose value . (RTECS)
Ingestion:	Ingestion - Rat LD50: 3500 mg/kg; Liver - Other changes Kidney, Ureter, Bladder - Other changes . (RTECS)
Carcinogenicity:	IARC: Group 2B: Possibly carcinogenic to humans.

Titanium dioxide :

Skin:	Skin - Rabbit; Standard Draize test. : 300 ug/3D; (Intermittent) mild. (RTECS)
Ingestion:	Ingestion - Rat TDLo: 60 gm/kg; Gastrointestinal - Hypermotility, diarrhea Gastrointestinal - Other changes. (RTECS)
Carcinogenicity:	IARC: Group 2B: Possibly carcinogenic to humans.

Xylene :

Eye:	Eye - Rabbit; Standard Draize test. : 87 mg; mild. Eye - Rabbit; Standard Draize test. : 5 mg/24H; severe. (RTECS)
Skin:	Skin - Rabbit; Standard Draize test. : 100%; Moderate. Skin - Rabbit; Standard Draize test. : 500 mg/24H; Moderate. (RTECS)
Inhalation:	Inhalation - Rat LC50: 5000 ppm/4H; Details of toxic effects not reported other than lethal dose value (RTECS)
Ingestion:	Ingestion - Rat LD50: 4300 mg/kg; Liver - Other changes Kidney, Ureter, Bladder - Other changes Ingestion - Mouse LD50: 2119 mg/kg; Details of toxic effects not reported other than lethal dose value (RTECS)
Carcinogenicity:	IARC: Group 3: Unclassifiable as to carcinogenicity to humans.

Light aromatic solvent naphtha :

Eye:	Eye - Rabbit; Standard Draize test. : 100 uL/24H; mild. (RTECS)
Ingestion:	Ingestion - Rat LD50: 8400 mg/kg; Behavioral - Somnolence (general depressed activity) Behavioral - Tremor Lungs, Thorax, or Respiration - Other changes (RTECS)

N-butyl alcohol :

Eye:	Eye - Rabbit; Standard Draize test. : 2 mg/24H - severe (RTECS)
Skin:	Skin - Rabbit; LD50: 3400 mg/kg - Details of toxic effects not reported other than lethal dose value. (RTECS)
Inhalation:	Inhalation - Rat LC50: 8000 ppm/4H - Inhalation - Rat LC50: 24000 mg/m3/4H - Details of toxic effects not reported other than lethal dose value. (RTECS)
Ingestion:	Ingestion - Rat LD50: 800 mg/kg - Details of toxic effects not reported other than lethal dose value

Ingestion - Mouse LD50: 100 mg/kg - [Details of toxic effects not reported other than lethal dose value. (RTECS)

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity:	No ecotoxicity data was found for the product.
Environmental Fate:	No environmental information found for this product.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal:	Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines.
Important Disposal Information:	DANGER! Rags, steel wool and waste soaked with this product may spontaneously catch fire if improperly discarded or stored. To avoid a spontaneous combustion fire, immediately after use, place rags, steel wool or waste in a sealed, water-filled, metal container. Do not store unused product inside the home. For disposal guidance, contact your household refuse collection service, fire department, county or state government environmental control agency.

SECTION 14 - TRANSPORT INFORMATION

DOT Shipping Name:	Paint.
DOT UN Number:	UN1263
DOT Hazard Class:	3
DOT Packing Group:	II

SECTION 15 - REGULATORY INFORMATION

California PROP 65:	WARNING: This product contains a chemical known to the state of California to cause cancer and birth defects or other reproductive harm.

Acetone :

TSCA Inventory Status:	Listed
State Regulations:	Listed in the Pennsylvania State Hazardous Substances List.
Canada DSL:	Listed

Polychloro copper phthalocyanine (as Cu) :

TSCA Inventory Status:	Listed
Canada DSL:	Listed

2-Butoxyethanol :

TSCA Inventory Status:	Listed
State Regulations:	Listed in the New Jersey State Right to Know List. Listed in the Pennsylvania State Hazardous Substances List.
Canada DSL:	Listed

Amorphous silica :

TSCA Inventory Status:	Listed
State Regulations:	Listed in the Pennsylvania State Hazardous Substances List.
Canada DSL:	Listed

Ethyl Benzene :

TSCA Inventory Status:	Listed
State Regulations:	Listed in the New Jersey State Right to Know List. Listed in the Pennsylvania State Hazardous Substances List.
Canada DSL:	Listed

Titanium dioxide :

TSCA Inventory Status:	Listed
State Regulations:	Listed in the New Jersey State Right to Know List. Listed in the Pennsylvania State Hazardous Substances List.
Canada DSL:	Listed

Xylene :

TSCA Inventory Status:	Listed
State Regulations:	Listed in the New Jersey State Right to Know List. Listed in the Pennsylvania State Hazardous Substances List.
Canada DSL:	Listed

Light aromatic solvent naphtha :

TSCA Inventory Status:	Listed
Canada DSL:	Listed

N-butyl alcohol :

TSCA Inventory Status:	Listed
State Regulations:	Listed in the New Jersey State Right to Know List. Listed in the Pennsylvania State Hazardous Substances List.
Canada DSL:	Listed

SECTION 16 - ADDITIONAL INFORMATION

HMIS Health Hazard:	1
HMIS Fire Hazard:	3
HMIS Reactivity:	0
HMIS Personal Protection:	x
MSDS Creation Date:	June 02, 2006
MSDS Revision Date:	June 02, 2010
MSDS Revision Notes:	Product code change
MSDS Author:	Actio Corporation
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