



**Distributor:** Mager Scientific  
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**Phone:** (734) 426-3885

**Distributor Product No.**

**CM-220**

**CM-221**

**CM-222**

**Manufacturer:** Fulton Metallurgical  
**Manufacturer Product No.:** Quickmount

Dear Customer:

In order to comply with the Hazard Communication Law which went into effect November 25, 1985, and the Globally Harmonized System (GHS) regulation update introduced by the Occupational Safety and Health Administration (OSHA) in 2015, attached is the safety data sheet pertaining to our product noted above.

Additional sheets are available upon request. Please feel free to contact us if we can be of further assistance.

Sincerely,

Mager Scientific, Inc.  
Customer Service

**SAFETY DATA SHEET**  
**METHYL METHACRYLATE MONOMER, STABILIZED**  
**QUICKMOUNT LIQUID**



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**Section 1. Product and Company Identification**

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**Product Identifier**

CAS Number: 80-62-6

CAS Name: 2-METHYL-2-PROPENOIC ACID, METHYL ESTER

**Trade Names and Synonyms**

METHYL METHACRYLATE MONOMER

MMA

2-METHYL-2-PROPENOIC ACID, METHYL ESTER

METHYL 2-METHYL-2-PROPENOATE

METHACRYLIC ACID, METHYL ESTER

M100

**Manufacturer's Name:**

Fulton Metallurgical Products Corporation

PO Box 427

Saxonburg, PA 16056

**Telephone Number for Information:**

1-724-898-3600

Emergency Telephone Number:

1-800-424-9300 (CHEMTREC)

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**Section 2. Hazard(s) Identification**

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**Potential Acute Health Effects:**

EYE: Liquid and vapors can cause moderate irritation (tears, blurred vision and redness).

SKIN: May cause skin irritation. Can cause skin sensitization.

INGESTION: Causes irritation, a burning sensation of the mouth, throat and gastrointestinal tract and abdominal pain.

**Potential Chronic Health Effects**

CHRONIC: (Cancer) INFORMATION: Prolong and/or repeated exposure may lead to kidney, lungs, heart and liver damage. Unlikely to present a cancer hazard to man.

TERATOLOGY (BIRTH DEFECT) INFORMATION: Developmental toxicity observed in animal tests but only at levels toxic to the mother.

REPRODUCTIVE INFORMATION: No information available but no adverse reproductive effect expected.

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### Section 3. Composition/Information on Ingredients

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Hazardous Components	CAS No.	OSHA PEL	%
Methyl Methacrylate Monomer	80-62-6	100	90-95
N, N- Dimethyl-P-Toluidine	99-97-8	N/A	1-2
1, 3 Butylene Glycol Dimethacrylate	1189-08-8	N/A	4-8

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### Section 4. First Aid Measures

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**Eye Contact:** Check for and remove any contact lenses. Immediately flush eye with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.

**Skin Contact:** After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing. Thoroughly clean shoes before reuse. Get medical attention.

**Serious Skin Contact:** Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

**Inhalation:** If inhaled, move individual to fresh air. If breathing is difficult, give oxygen. Seek medical attention. If not breathing, call for medical assistance and perform cardiopulmonary resuscitation.

**Ingestion:** Do not induce vomiting. Loosen tight clothing such as collar, tie, belt or waistband. If the victim is not breathing, perform cardiopulmonary resuscitation.

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### Section 5. Fire Fighting Measures

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**Flash Point (Method Used)**

55 TOC; 50 TCC

**Flammable Limits**

LEL 2.12

UEL 12.5

**Extinguishing Media:** Foam, CO<sub>2</sub>, Dry Chemical, Water Fog (by trained personnel).

**Special Fire Fighting Procedures:**

Water may be ineffective unless used as a fine mist spray of fog.

Use water spray to cool fire

**Fire and Explosive Hazard:** Sealed containers exposed to elevated temperatures may rupture explosively due to polymerization. Vapors may travel to source of ignition and flash back. Avoid ignition sources of excessive temperatures. Closed containers can rupture explosively.

**Fire Fighting Instructions:** Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus. Wear full protective equipment. Fire fight from a distance, heat may rupture containers.

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## Section 6. Accidental Release Measures

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**Small Spill:** Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.

**Large Spill:** Flammable liquid. Keep away from heat. Keep away from sources of ignition. Eliminate all ignition sources. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements, or confined areas; dike if needed. Be careful that the product is not present at a concentration level above TLV.

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## Section 7. Handling and Storage

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**Precautions:** Keep away from heat. Keep away from sources of ignition. Do not ingest. Do not breathe fumes/vapors/spray. Wear suitable protective clothing in case of insufficient ventilation, wear suitable respiratory equipment, if ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as metals, acids, and alkalis.

**Storage:** Flammable materials should be stored in a separate safety storage cabinet or room. Keep away from heat. Keep away from sources of ignition. Keep container tightly closed. Keep in a cool, well-ventilated place.

A refrigerated room would be preferable for materials with a flash point lower than 37.8 degrees C (100 degrees F). Do not expose to direct sunlight.

**Storage Precaution:** Advisable to use material within six (6) months.

**Disposal Method:** Under controlled conditions in a safe open area, or landfill according to Federal, State, or Local regulations. Biological degradation is also possible.

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## Section 8. Exposure Controls/Personal Protection

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### Engineering Controls:

Keep container tightly closed.

Mechanical ventilation to keep vapors concentration below exposure limits.

**Personal Protective Equipment:**

**Eye/Face Protection:** Wear safety glasses. Wear splash proof goggles (ANSI A87.1-1968) and face shield when possibility exists for eye and face contact due to splashing or spraying material.

**Respirators:** A NIOSH approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain limited 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 uncontrolled release, exposure levels are not known or any other circumstances where air purifying respirators may not provide adequate protection.

**Protective Clothing:** Wear impervious apron and gloves to prevent ANY contact with this product. Wear apron, gloves, and overshoes during clean-up operations. Nitrile is better than PVC.

**Hygienic Practices:** Regular laboratory procedures- housekeeping.

**Exposure Limits:**

METHYL METHACRYLATE

PEL (OSHA): 100 ppm, 8 Hr. TWA

TLV (ACGIH): 50 ppm, 8 Hr. TWA; 100 ppm, 15 min. STEL

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**Section 9. Physical and Chemical Properties**

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<b>Physical state and appearance:</b>	Liquid
<b>Color:</b>	Clear, colorless
<b>Odor:</b>	Characteristic acrylic odor
<b>Oder Threshold:</b>	0.049 ppm
<b>Taste:</b>	Not available
<b>Molecular Weight:</b>	100.2g/mole
<b>pH (1% soln/water):</b>	Not available
<b>Boiling Point:</b>	101C; 214 F
<b>Melting Point:</b>	-48C
<b>Critical Temperature:</b>	Not available
<b>Specific Gravity:</b>	0.936 (Water = 1)
<b>Vapor Pressure:</b>	29 mm Hg @ 20C
<b>Vapor Density: (Air = 1):</b>	3.45
<b>Volatility:</b>	Not available
<b>Water/Oil Dist. Coeff:</b>	Not available
<b>Solubility (in Water):</b>	Partially soluble in cold water
<b>Ionicity (in Water):</b>	Not available

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## Section 10 – Stability and Reactivity

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**Stability:** This product is stable.

**Conditions to Avoid:** Elevated temperatures and ignition sources.

**Incompatibility (Materials to Avoid):** Reducing & oxidizing materials. Material is a strong solvent and can soften paints and rubber.

**Hazardous Decomposition or Byproducts:** Acid fumes and CO and/or CO<sub>2</sub>.

**Hazard Polymerization:** May occur

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## Section 11 – Toxicological Information

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**Primary Routes of Entry:** Eyes, Inhalation, Skin, & Ingestion

**Health Hazards: Acute and Chronic):** Prolong or repeated overexposure could cause liver and kidney damage. Can aggravate pre-existing respiratory condition(s).

**Signs and Symptoms of Exposure:** Vapors concentration can cause headache, nausea, smarting of eyes and irritation of respiratory system. Liquid contact with eyes will cause irritation and possible cornea damage.

### Emergency and First Procedure

**Inhalation:** Move subject to fresh air immediately. Give oxygen or perform cardiopulmonary resuscitation if needed.

**Skin and Eyes:** Wash skin with soap and water. Check eyes for and remove any contact lenses. Immediately flush eye with copious amounts of running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do use an eye ointment. Seek medical attention.

**Ingestion:** Do not induce vomiting and seek medical attention promptly.

**Toxicity to Animals:** WARNING: THE LC<sub>50</sub> VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (LD<sub>50</sub>): 7872 mg/kg [Rat]. Acute toxicity of the vapor (LC<sub>50</sub>): 5303.3 ppm; 4 hour(s) [Rat].

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## Section 12 – Impact on the Environment

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**Ecotoxicity:** Not available

**BOD<sub>5</sub> and COD:** Not available

**Products of Biodegradation:** Possible hazardous short-term degradation products are not likely. However, long-term degradation products may arise.

### Toxicity of the Products of

**Biodegradation:** The products of degradation are more toxic.

### Special Remarks on the

**Products of Biodegradation:** Not available

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## Section 13 – Disposal Consideration

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**Waste Disposal:** Waster must be disposed of in accordance with federal, state, and local environmental control regulations.

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## Section 14 – Transport Information

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**DOT Classification:** Class 3: Flammable liquid  
**Identification:** Methyl Methacrylate Monomer, Stabilized: UN1247  
Packing Group II  
**Special Provisions for Transport:** Not available



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## Section 15 – Regulatory Information

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**Federal and State Regulations:** Pennsylvania RTK: Methyl Methacrylate

**Other Regulations:** Occupational Safety and Health Administration (OSHA): Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

**Other Classifications:**

**WHMIS (Canada):** Class B-2: Flammable liquid with a flash point lower than 37.8°C (100°F).  
Class D-2A: Material causing other toxic effects.

**DSCL (EEC):** R11 – Highly flammable, R37/38-Irritating to eyes and skin.

**HMIS (USA):** Health Hazard: 2  
Fire Hazard: 3  
Reactivity: 3  
Personal Protection: h

**National Fire**

**Protection Association (USA)** Health Hazard: 2  
Flammability: 3  
Reactivity: 2

**Protective Equipment:** Suitable gloves, Lab coat, Respirator (Be sure to use a NIOSH approved/certified respirator. Wear appropriate respirator when ventilation is inadequate), Safety Glasses and/or Splash Goggles.

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## **Section 16 – Other Information**

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First Created: March 6, 2013

Revision number: 1

Final revision date: March 15, 2014



# SAFETY DATA SHEET

## QUICKMOUNT POWDER

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### Section 1. Product and Company Identification

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#### Product Identifier

CAS Number: 9011-14-7  
CAS Name: Lucite Acrylic Resin – Poly (MMA) Based (4FS1)

CAS Number: 000094-36-0  
CAS Name: Dibenzoyl Peroxide, powder

CAS Number: 7732-18-5  
CAS Name: Water

#### Trade Names and Synonyms

Polymer based on Methyl Methacrylate

#### Manufacturer's Name:

Fulton Metallurgical Products Corporation  
PO Box 427  
Saxonburg, PA 16056

#### Telephone Number for Information:

1-724-898-3600  
Emergency Telephone Number:  
1-800-424-9300 (CHEMTREC)

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### Section 2. Hazard(s) Identification

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Hazard Classification : Combustible dust  
Signal Word: "Warning"  
Hazard Statement: May form combustible dust concentrations in air.  
Other hazards: Low toxicity under normal conditions of handling and use. Causes eye irritation, may cause allergic skin reaction, very toxic to aquatic organisms. Dust may be irritating to the respiratory tract and cause symptoms of bronchitis.

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### Section 3. Composition/Information on Ingredients

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<b>Hazardous Components</b>	<b>CAS No.</b>	<b>%</b>
Lucite Acrylic Resin – Poly (MMA) Based (4FS1)	9011-14-7	95
Dibenzoyl Peroxide	94-36-0	3
Water	7732-18-5	2

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### Section 4. First Aid Measures

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**Eye contact:** Immediately flush eyes with plenty of water. If easy to do contact lenses should be removed during flushing, by trained personnel. Hold eyelids apart during the flushing to ensure rinsing the entire surface of the eye and lids with water. Get medical attention if irritation persists.

**Skin contact:** Immediately wash skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing and shoes before reuse.

**Inhalation:** IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, perform cardiopulmonary resuscitation. Oxygen may additionally be given, by trained personnel, if it is available. Get medical attention immediately if symptoms occur.

**Ingestion:** Do not induce vomiting. Call a physician or a poison control center immediately. If vomiting occur, lie the individual on their left side to reduce risk of aspiration.

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### Section 5. Fire Fighting Measures

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**Flammable Limits:** N/A

**Extinguishing media:** Water spray, foam, dry powder, sand, or CO<sub>2</sub>

**Unsuitable extinguishing media:** Do not use water jet or Halons

**Special Hazards arising from the substance or mixture:** Combustible but not readily ignited. By analogy with similar materials, the product may decompose if heated to temperatures above 392° F (200° C). Combustion or thermal decomposition will evoke toxic, irritant and flammable vapors.

**Fire fighting instructions:** Wear self-contained breathing apparatus. Wear full protective equipment.

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## Section 6. Accidental Release Measures

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**Personal precautions:** Do not breath dust, Avoid contact with skin and eyes.

**Environmental precautions:** Do not allow to enter drains or water courses.

**Methods and materials for containment and cleaning up:** Caution spillage may be slippery. Sweep up and shovel into waste drums or plastic bags. Wash the spillage with water and prevent the spilled material from entering drains or water courses.

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## Section 7. Handling and Storage

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**Precautions for safe handling:** Avoid contact with eyes. Avoid prolong skin contact. Unlikely to represent a dust hazard under normal handling conditions.

**Storage:** Keep material in a clean, cool, dry area away from heat sources. Natural ventilation is adequate.

**Storage Precaution:** Store in ambient temperatures.

**Disposal Method:** Under controlled conditions in a safe open area, or landfill according to Federal, State, or Local regulations. .

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## Section 8. Exposure Controls/Personal Protection

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**Engineering Controls:** Do not eat, drink, or smoke at the work place. Provide adequate ventilation, including appropriate local extraction, to ensure that the occupational exposure limit is not exceeded. Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

### **Personal Protective Equipment:**

**Eye/Face Protection:** Wear safety glasses. Wear splash proof goggles (ANSI A87.1-1968) and face shield when possibility exists for eye and face contact.

**Respirators:** Suitable dust mask or dust respirator with type P may be appropriate.

**Protective Clothing:** Wear suitable gloves and rubber apron.

**Hygienic Practices:** Regular laboratory procedures- housekeeping.

**Exposure Limits:**

Substance	CAS No.	OSHA PEL TWA	ACGIH TWA	ACGIH STEL	Company Std TWA	Company Std. STEL
Particulates (Total dust) Respirator dust)		15 mgm <sup>3</sup> 5 mg/m <sup>3</sup>	Not established			

The following values apply to substances which may be evolved during thermal processing

Substance	CAS No.	OSHA PEL TWA	ACGIH TWA	ACGIH STEL	Company Std TWA	Company Std. STEL
Methyl methacrylate	80-62-6	100 ppm (410 mg/m <sup>3</sup> )	50 ppm (205 mg/m <sup>3</sup> )	100 ppm (410 mg/m <sup>3</sup> ) (SEN; A4)	50 ppm	100 ppm

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## Section 9. Physical and Chemical Properties

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<b>Physical state and appearance:</b>	Beads
<b>Color:</b>	White
<b>Odor:</b>	Typically methacrylate
<b>pH (Value):</b>	Not applicable
<b>Melting Range (°C)</b>	150 – 230
<b>Boiling Point (°C)</b>	Not applicable
<b>Flash Point (°C)</b>	Not available
<b>Relative Evaporation Rate (Ether = 1)</b>	Not applicable
<b>Flammable Limits</b>	Not applicable
<b>Vapor Pressure (Pascal)</b>	Not applicable
<b>Vapor Density (Air = 1)</b>	Not applicable
<b>Specific Gravity:</b>	1.18
<b>Solubility (Water)</b>	Negligible
<b>Solubility (Other)</b>	Not available
<b>Partition Coefficient (n-Octanol/water)</b>	Not applicable
<b>Viscosity (mPa. s)</b>	Not available
<b>Explosive Properties</b>	Not applicable
<b>Oxidizing Properties</b>	Not applicable

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## Section 10 – Stability and Reactivity

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**Hazardous Reactions:** None known

**Conditions to Avoid:** Keep away from heat

**Incompatibility (Materials to Avoid):** None known

**Hazardous Decomposition or Byproducts:** Methyl methacrylate, Carbon dioxide, Carbon monoxide, Benzoic acid, Benzene

**Hazard Polymerization:** Does not occur.

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## Section 11 – Toxicological Information

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**Primary Routes of Entry:** Eyes, Inhalation, Skin, & Ingestion

**Acute toxicity:**

**Ingestion:** Low oral toxicity.

**Inhalation:** Unlikely to be hazardous by inhalation.

**Skin Contact:** Unlikely to cause skin irritation. However, people with sensitive skin may have irritation and if this occurs, seek medical attention.

**Eye Contact:** Dust may cause irritation.

**Carcinogenicity/Mutagenic:** Not carcinogenic.

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## Section 12 – Impact on the Environment

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**Ecotoxicity:** The product is predicted to have low toxicity to aquatic organisms.

**Persistence and degradability:** The product is non-biodegradable in soil. There is no evidence of degradation in soil and water.

**Bioaccumulative potential:** The product has low potential for bioaccumulation

**Mobility:** The product is predicted to have low mobility in soil.

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## Section 13 – Disposal Consideration

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Emptied container might retain product residues. Therefore do not wash residues into drains or other waterways. Dispose of in accordance with federal, state, and local environmental control regulations.

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## Section 14 – Transport Information

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**DOT Classification:** Not classified as dangerous for transport  
**UN No** Not applicable  
**Proper Shipping Name:** Quickmount Powder  
**Class:** Not applicable  
**Environmental Hazard:** Not applicable

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## Section 15 – Regulatory Information

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### US Federal Regulations

SARA 302 –Extremely hazardous Substances	Not applicable
SARA 313 – Toxic Chemicals	None

### US State Regulations

#### California

Substances known to the State of California to cause birth defects or other reproductive harm: “None Known”  
Substances known to the state of California to cause cancer: “None Known”

### NFPA Rating

Health	0
Flammability	1
Reactivity	0

### NPCA-HMIS Rating

Health	0
Flammability	1
Reactivity	0

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## Section 16 – Other Information

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First Created: January 3, 2014

Revision number: 1

Final revision date: March 15, 2014