

**SECTION 1 : IDENTIFICATION****1.1. PRODUCT IDENTIFIER**

Product name : MG-450A  
Product code : Not available

**1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST**

Use of the substance/mixture : Non-Destructive Testing

**1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET****Manufacturer**

Magnaflux  
155 Harlem Ave.  
Glenview, IL 60025 - USA  
T: 847-657-5300

**Distributor****1.4. EMERGENCY TELEPHONE NUMBER**

Emergency number : CHEMTREC 800-424-9300

**SECTION 2: HAZARDS IDENTIFICATION****2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE****GHS classification**

Skin irritation 2  
Eye irritation 2A

**2.2. LABEL ELEMENTS****GHS labelling**

Hazard pictograms (GHS) :



GHS07

Signal word (GHS) :

Warning

Hazard statements (GHS) :

Causes skin irritation. Causes serious eye irritation.

Precautionary statements (GHS) :

Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. If on skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**2.3. OTHER HAZARDS**

No additional information available

**2.4. UNKNOWN ACUTE TOXICITY (GHS)**

Not applicable.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.1. SUBSTANCE**

Not applicable.

### 3.2. MIXTURE

Name	Product identifier	%
Sodium Phosphates	(CAS No) Proprietary	60-100%
Alcohols, C6-10, ethoxylated propoxylated	(CAS No) 68987-81-5	1-5%
2,4-Imidazolidinedione, 1,3-bis(hydroxymethyl)-5,5-dimethyl-	(CAS No) 6440-58-0	0.1-1%
1-(hydroxymethyl)-5,5-dimethylhydantoin	(CAS No) 27636-82-4	0.1-1%
Diisopropanolamine	(CAS No) 110-97-4	0.1-1%
1H-Benzotriazole, 4(or 5)-methyl-, sodium salt	(CAS No) 64665-57-2	0.1-1%

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

## SECTION 4: FIRST AID MEASURES

### 4.1. DESCRIPTION OF FIRST AID MEASURES

- First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
- First-aid measures after skin contact : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.
- First-aid measures after eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. If irritation persists, get medical attention.
- First-aid measures after ingestion : If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

### 4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

- Symptoms/injuries after inhalation : May cause respiratory tract irritation.
- Symptoms/injuries after skin contact : Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.
- Symptoms/injuries after eye contact : Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
- Symptoms/injuries after ingestion : May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

### 4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. EXTINGUISHING MEDIA

- Suitable extinguishing media : Water fog. Foam. Dry chemical. Carbon dioxide.
- Unsuitable extinguishing media : Do not use water jet.

### 5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

- Fire hazard : Products of combustion may include, and are not limited to: oxides of carbon, oxides of sodium, oxides of phosphorous, oxides of nitrogen, hazardous gases.

### 5.3. ADVICE FOR FIREFIGHTERS

- Protection during firefighting : Keep upwind of fire. Wear full fire-fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

- General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

### 6.2. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

- For containment : Minimize generation of dust. Contain spill, then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).
- Methods for cleaning up : Vacuum or sweep material and place in a disposal container. Provide ventilation.

### 6.3. REFERENCE TO OTHER SECTIONS

See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.

## SECTION 7: HANDLING AND STORAGE

### 7.1. PRECAUTIONS FOR SAFE HANDLING

Precautions for safe handling : Avoid contact with skin and eyes. Do not swallow. Avoid generating and breathing dust. Good housekeeping is important to prevent accumulation of dust. Handle and open container with care. When using do not eat, drink or smoke. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Ethylene oxide is subject to the standard 29 CFR 1910.1047 which may contain specific requirements for handling including protective equipment, regulated areas, monitoring and medical surveillance. The employer should review the standard and assure compliance with applicable requirements.

If water is added directly to MG-450A an exothermic (heat generating) reaction may occur. Although this reaction is mild and not expected to pose a hazard, adding water directly to MG-450A is not recommended.

Hygiene measures : Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

### 7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Storage conditions : Keep out of the reach of children. Keep container tightly closed. Hygroscopic product. Store in dry, cool, well-ventilated area.

### 7.3. SPECIFIC END USE(S)

Not available.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. CONTROL PARAMETERS

Sodium Phosphates (Proprietary)		
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (respirable fraction) 10 mg/m <sup>3</sup> (inhalable fraction)
OSHA	OSHA PEL (TWA) (ppm)	15 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable fraction)

Alcohols, C6-10, ethoxylated propoxylated (68987-81-5)	
ACGIH	Not applicable
OSHA	Not applicable

2,4-Imidazolidinedione, 1,3-bis(hydroxymethyl)-5,5-dimethyl- (6440-58-0)	
ACGIH	Not applicable
OSHA	Not applicable

1-(hydroxymethyl)-5,5-dimethylhydantoin (27636-82-4)	
ACGIH	Not applicable
OSHA	Not applicable

Diisopropanolamine (110-97-4)	
ACGIH	Not applicable
OSHA	Not applicable

1H-Benzotriazole, 4(or 5)-methyl-, sodium salt (64665-57-2)	
ACGIH	Not applicable
OSHA	Not applicable

### 8.2. EXPOSURE CONTROLS

Appropriate engineering controls : Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

Hand protection : Wear chemically resistant protective gloves.

Eye protection : Wear approved eye protection (properly fitted dust- or splash-proof chemical safety goggles) and face protection (face shield).

Skin and body protection : Wear suitable protective clothing.

Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Environmental exposure controls	: Maintain levels below Community environmental protection thresholds.
Other information	: Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: Solid
Appearance	: Granular powder
Colour	: Green
Odour	: No data available
Odour threshold	: No data available
pH	: No data available
pH solution	: 9.7 (1% water)
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: Not flammable
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Vapour pressure	: No data available
Relative density	: No data available
Relative vapour density at 20 °C	: No data available
Solubility	: Soluble
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

### 9.2. OTHER INFORMATION

No additional information available

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. REACTIVITY

No dangerous reaction known under conditions of normal use.

If water is added directly to MG-450A an exothermic (heat generating) reaction may occur. Although this reaction is mild and not expected to pose a hazard, adding water directly to MG-450A is not recommended.

### 10.2. CHEMICAL STABILITY

Stable under normal storage conditions.

### 10.3. POSSIBILITY OF HAZARDOUS REACTIONS

No dangerous reaction known under conditions of normal use.

### 10.4. CONDITIONS TO AVOID

Heat. Incompatible materials. Humidity.

### 10.5. INCOMPATIBLE MATERIALS

Strong acids. Strong oxidizing agents. Bases.

**10.6. HAZARDOUS DECOMPOSITION PRODUCTS**

May include, and are not limited to: oxides of carbon, oxides of sodium, oxides of phosphorous, oxides of nitrogen, hazardous gases.

**SECTION 11: TOXICOLOGICAL INFORMATION**
**11.1. INFORMATION ON TOXICOLOGICAL EFFECTS**

Acute toxicity : Not classified.

MG-450A	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat	No data available

Sodium Phosphates (Proprietary)	
LD50 oral rat	3120 mg/kg
LD50 dermal rabbit	> 4640 mg/kg

Alcohols, C6-10, ethoxylated propoxylated (68987-81-5)	
LD50 oral	<2000 mg/kg
LD50 dermal	<2000 mg/kg

2,4-Imidazolidinedione, 1,3-bis(hydroxymethyl)-5,5-dimethyl- (6440-58-0)	
LD50 oral rat	2400 mg/kg
LD50 dermal rabbit	>2000 mg/kg

1-(hydroxymethyl)-5,5-dimethylhydantoin (27636-82-4)	
LD50 oral rat	2400 mg/kg
LD50 dermal rabbit	>2000 mg/kg

Diisopropanolamine (110-97-4)	
LD50 oral rat	>2000 mg/kg
LD50 dermal rabbit	8000 mg/kg

1H-Benzotriazole, 4(or 5)-methyl-, sodium salt (64665-57-2)	
LD50 oral rat	920 mg/kg (male); 640 mmg/kg (female)
LD50 dermal rabbit	No data available

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Based on available data, the classification criteria are not met.
Germ cell mutagenicity	: Based on available data, the classification criteria are not met.
Carcinogenicity	: Based on available data, the classification criteria are not met.
Reproductive toxicity	: Based on available data, the classification criteria are not met..
Specific target organ toxicity (single exposure)	: Based on available data, the classification criteria are not met.
Specific target organ toxicity (repeated exposure)	: Based on available data, the classification criteria are not met.
Aspiration hazard	: Based on available data, the classification criteria are not met.
Symptoms/injuries after inhalation	: May cause respiratory tract irritation.
Symptoms/injuries after skin contact	: Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.
Symptoms/injuries after eye contact	: Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
Symptoms/injuries after ingestion	: May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

**SECTION 12: ECOLOGICAL INFORMATION**
**12.1. TOXICITY**

Ecology - general : May cause long-term adverse effects in the aquatic environment.

**12.2. PERSISTENCE AND DEGRADABILITY**

MG-450A	
Persistence and degradability	Not established.

**12.3. BIOACCUMULATIVE POTENTIAL**

MG-450A	
Bioaccumulative potential	Not established.

**12.4. MOBILITY IN SOIL**

No additional information available

**12.5. OTHER ADVERSE EFFECTS**

Effect on the global warming : No known ecological damage caused by this product.

**SECTION 13: DISPOSAL CONSIDERATIONS**
**13.1. WASTE TREATMENT METHODS**

Waste disposal recommendations : This material must be disposed of in accordance with all local, state, provincial, and federal regulations. The generation of waste should be avoided or minimized wherever possible.

**SECTION 14: TRANSPORT INFORMATION**

In accordance with DOT/TDG

Not regulated for transport

**ADDITIONAL INFORMATION**

Other information : No supplementary information available.

Special transport precautions : Do not handle until all safety precautions have been read and understood.

**SECTION 15: REGULATORY INFORMATION**
**15.1. FEDERAL REGULATIONS**

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

NFPA health hazard : 2  
 NFPA fire hazard : 1  
 NFPA reactivity : 0


**15.2. US STATE REGULATIONS**

MG-450A	
State or local regulations	This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

**SECTION 16: OTHER INFORMATION**

Date of issue : 10/06/2016  
 Revision date : 10/06/2016  
 Other information : None.

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