

# Material Safety Data Sheet

## BUENO 6

Version: 1

Date Issued: 02/11/02

MSDS No. US 021102

### SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

COMPANY: KMG-Bernuth, Inc.  
10611 Harwin, Suite 402  
Houston, Texas 77036

PHONE NUMBER: 713-988-9252

EMERGENCY PHONE: CHEMTREC: 1 800-424-9300

NAME USED ON LABEL: BUENO 6

PRODUCT USE: Herbicide

A Registered Trade Mark of KMG-Bernuth, Inc.

### SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>IDENTITY</u>	<u>CAS NUMBER</u>	<u>TYPICAL %</u>	<u>OTHER INFORMATION</u>
Monosodium Acid Methanearsonate	2163-80-6	48.3%	

Ingredients not precisely identified are proprietary or non-hazardous.  
Values are not product specifications.

### SECTION 3. HAZARDS IDENTIFICATION

#### PHYSICAL HAZARDS:

None

#### HEALTH HAZARDS:

Slightly toxic by ingestion. Slight irritant to skin and eyes.

### SECTION 4. FIRST AID MEASURES

**IF IN EYES:** Check for and remove contact lenses. Immediately flush with plenty of water for at least 15 minutes. Hold the eyelids apart to ensure flushing of the entire eye surface. Seek medical attention.

**IF ON SKIN:** Wash material off skin with plenty of soap and water.

**IF SWALLOWED:** Provided the patient is conscious, give 1 or 2 glasses of water to drink. Induce vomiting by sticking finger down throat. Never give anything by mouth to an unconscious person. Obtain medical attention.

**IF INHALED:** Remove victim to fresh air. Until adequate ventilation or other control measures are restored, employ proper respiratory protection. If symptoms develop, seek medical attention.

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**MEDICAL ADVICE:** If ingested, gastric lavage may be required. Chelation therapy with BAL or D-penicillamine has been recommended in the literature for symptomatic arsenic poisoning. Persons allergic to penicillin may suffer reaction to D-penicillamine; they should be treated with BAL only.

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### **5. FIREFIGHTING MEASURES**

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**FLASH POINT:**

Nonflammable

**AUTOIGNITION TEMPERATURE:**

Not applicable

**FLAMMABLE LIMITS (STP):**

Noncombustible

**EXTINGUISHING MEDIA:**

Use dry chemical or carbon dioxide. Use of water or foam should be discouraged to prevent spreading of material.

**PROTECTIVE EQUIPMENT:**

Self-contained breathing apparatus with full facepiece and protective clothing.

**HMI S RATING**

**Health**

1

**Fire**

0

**Reactivity**

0

**PPE**

a

**NFPA RATING**

**Health**

0

**Fire**

0

**Reactivity**

0

**SPECIAL HAZARDS**

**Unusual Fire and Explosion Hazards:**

Noxious fumes may be emitted under fire conditions.

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### **6. ACCIDENTAL RELEASE MEASURES**

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**METHODS FOR CLEANING UP:**

Remove as much as possible by absorbing with inert material. Remove any contaminated soil. Place in closed, labeled containers and store in a safe place to await disposal. Flush spill area with large amounts of water.

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### **7. HANDLING AND STORAGE**

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**REQUIREMENTS FOR STORAGE ROOMS:**

Keep in a cool, well ventilated place. Keep away from heat..

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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#### OCCUPATIONAL EXPOSURE LIMITS

##### ACGIH TLV arsenic

Elemental and inorganic

TWA 0.01 mg/m<sup>3</sup>

##### OSHA PEL arsenic

Elemental and inorganic

TWA 0.5 mg/m<sup>3</sup>

#### OCCUPATIONAL EXPOSURE STANDARDS

Not established

#### VENTILATION

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

#### EYE PROTECTION:

Use protective eyewear.

#### BODY PROTECTION:

Applicators and other handlers must wear long-sleeved shirt and long pants, waterproof gloves, chemical-resistant footwear plus socks.

#### RESPIRATORY PROTECTION:

Use MSHA-NIOSH approved respirator for organic vapors, dusts and mists.

#### OTHER PROTECTIVE EQUIPMENT:

Eyewash station and safety shower in work area.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

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FORM:	liquid
PHYSICAL STATE:	Soluble concentrate
COLOR:	light yellow
ODOR:	odorless
BOILING POINT:	108° C +/- 2
MELTING POINT:	Not applicable
FREEZING TEMPERATURE:	-32° C <b>Do not allow product to freeze.</b>
VAPOR PRESSURE:	<= 7.5 ...1. OE-08 Torr at 25° C
EVAPORATION RATE:	Not determined
BULK DENSITY:	12.6 lb/gal at 20° C
VAPOR DENSITY:	Not determined
SPECIFIC GRAVITY:	1.51 (water=1)
SOLUBILITY	104 g/100ml
SOLUBILITY:	soluble in/with water 100%
pH-value (quant.):	5.7 ... 6.7
VOLATILE BY VOLUME:	60% (v/v)

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### 10. STABILITY AND REACTIVITY

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#### HAZARDOUS REACTIONS (CONDITIONS TO AVOID):

##### Stability:

Stable under normal conditions.

##### Incompatibility:

Avoid contact with acids, nascent hydrogen and many metals as aluminum, zinc, copper and tin. Do not

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mix with other spray solutions without label clearance.

Hazardous polymerization:

Material is not known to polymerize.

### **HAZARDOUS DECOMPOSITION PRODUCTS:**

Arsenic, in the presence of acids and metals such as aluminum, zinc, copper and tin can combine with nascent hydrogen to form arsine gas. This gas is highly poisonous, colorless, nonirritating and has a mild garlic odor.

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## **11. TOXICOLOGICAL INFORMATION**

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### **ACUTE TOXICITY (LETHAL DOSES)**

#### **LD<sub>50</sub> Ingestion rat**

Dose: 1580 mg/kg

Additional information: A single dose of this product is classified as "slightly toxic" by ingestion. Probable lethal dose in man is between 1 ounce and 1 pint of liquid

#### **LD<sub>50</sub> Dermal rabbit**

Dose: 4200 mg/kg

Additional information: Repeated and/or prolonged contact may cause irritation.

#### **LD<sub>50</sub> Inhalation rat**

Dose: >20 mg/l

Period: 4 hours

Additional information: No mortality was produced in rats during a 4-hour exposure to an atmosphere greater than 20.0 mg/l. Prolonged exposure might induce mild irritation of lungs in man but recovery following exposure should be rapid.

#### **Skin absorption**

Additional information: Not readily absorbed through intact skin

### **ACUTE TOXICITY (IRRITATION, SENSITIZATION, ETC)**

#### **Eye Contact**

Additional information: Although MSMA is non-irritating to the cornea, mild conjunctival irritation may persist for several days in unwashed eyes. Washing eyes immediately following exposure should prevent eye irritation.

### **GENERAL INFORMATION ABOUT ACUTE OR OTHER TOXICITIES**

Other effects of overexposure: Acute overexposure may result in mild irritation to tissue. Symptoms of arsenic poisoning are headache, dizziness, stupor, vomiting, diarrhea, convulsions, paralysis or death. Degree of irritation may increase with chronic exposure. Poisoning effects can be salty taste in mouth, burning throat and stomach and intestinal pains.

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## **12. ECOLOGICAL INFORMATION**

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### **ECOTOXICITY**

Assessment: May be toxic to aquatic life.

### **ADDITIONAL INFORMATION ABOUT ECOLOGY**

Toxic to wildlife

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### **13. DISPOSAL CONSIDERATIONS**

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#### **Disposal Method:**

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Do not contaminate waterways by cleaning of equipment or by disposal of wastes.

#### **Container disposal:**

Empty container retains product residue. Triple rinse, or equivalent, empty container, return rinse water to dilution mixture, and dispose of dilution mixture as hazardous waste if it cannot be disposed of by use according to label instructions. Do not reuse container. Offer it for recycling or reconditioning, or puncture and dispose of in properly permitted landfill.

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### **14. TRANSPORT INFORMATION**

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#### **ROAD TRANSPORT DOT:**

Not regulated by DOT

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### **15. REGULATORY INFORMATION**

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#### **OTHER REGULATIONS, RESTRICTIONS AND PROHIBITIONS**

**SARA 313 Inventory Ingredients:** Arsenic compounds (22.3%)

**SARA 312 Hazards Classification:** Not applicable

**California Proposition 65:** No warnings are necessary

#### **EPA**

**EPA Registration number:** 61483-15

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### **16. OTHER INFORMATION**

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We assigned NFPA and HMIS ratings to this product based on the hazards of its ingredient(s). Because the customer is most aware of the application of the product, he must ensure that the proper personal protective equipment (PPE) is provided consistent with information contained in the product MSDS. This information is intended solely for the use of individuals trained in the particular hazard rating system.

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