

# Material Safety Data Sheet

**Product Name: Gordon's MSMA Herbicide**

MSDS No.: 847-2

Version No.: 002

EPA Registration No.: 2217-630

## 1. Basic Information:

**Manufacturer:** PBI/Gordon Corporation  
**Address:** 1217 West 12th Street  
**City, State Zip:** Kansas City, MO 64101-1407  
**Information Contact:** Environmental, Health, & Safety Dept.  
**Information Telephone Number:** (816)421-4070  
**Emergency Contact:** Chemtrec  
**Emergency Telephone Number:** (800)424-9300



<b>2</b>	Health
<b>1</b>	Flammability
<b>0</b>	Reactivity
<b>B</b>	Pers. Protection

**Last Update:** 8/18/2005

**Chemical State:**  Liquid       Gas       Solid  
**Chemical Type:**  Pure       Mixture

## 2. Ingredients:

Trade Secret (ND = Not Disclosed)

CAS No.	Chemical Name	% Range	EHS		IARC		SARA 313		OSHA PEL	ACGIH TLV	Other Limits
			NTP		SUB Z						
2163806	Monosodium Methanearsonic acid (MSMA)	16.6%	N	N	N	Y	N		.5mg/m3	NI	NI

## 3. Hazardous Identification:

**Hazard Category:**

Acute     Chronic     Fire     Pressure     Reactive

**Hazardous Identification Information:**

The OSHA PEL is in mg.m3 of Arsenic contained in the MSMA.

## 4. First Aid Measures:

**Route(s) of Entry:**

Skin contact, Inhalation, Ingestion.

**Health Hazards (Acute and Chronic):**

EYES: Contact may cause irritation and burning.

SKIN: Moderately irritating to the skin; may be absorbed through the skin.

INHALATION: Moderately irritating to the mucous membranes.

Inhalation of sprays may cause burning sensations in the respiratory tract, resulting in coughing.

INGESTION: May cause vomiting, with pain in the chest and abdomen, and diarrhea.

CHRONIC EFFECTS: Repeated or prolonged overexposure may effect the liver and kidneys.

**Signs and Symptoms:**

Inhalation may cause burning in the chest, with coughing. Prolonged inhalation sometimes causes dizziness. Ingestion usually leads to vomiting. Pain in the chest and abdomen, and diarrhea may follow. Poisoning effects include salty taste in the mouth, burning throat and stomach, and intestinal pains.

**Medical Conditions Generally Aggravated by Exposure:**

NI

**Emergency First Aid Procedure:**

IF SWALLOWED: Drink one or two glasses of water and induce vomiting by touching back of throat with finger. Call a physician at once.

IF IN EYES: In case of eye contact, immediately flush eyes with plenty of

### First Aid Measures (Continued)

water for 15 minutes. Call a physician at once.

IF ON SKIN: Wash promptly with soap and water. Rinse thoroughly. If irritation develops, get medical attention.

IF INHALED: Remove victim to fresh air and apply respiration if indicated.

**Other Health Warnings:**

NI

## 5. Fire Fighting Measures:

**Flash Point:** 111°F      **F.P. Method:** PM Closed Cup

**Lower Explosive Limit:** NI

**Upper Explosive Limit:** NI

**Fire Extinguishing Media:**

Foam, CO2, dry chemical, water. The low flash point of this product is due to a minor component in the mixture. Based on independent laboratory testing of similar products, this product would not sustain combustion as specified in DOT Regulation 49 CFR 173 Appendix H, and, therefore, would not be classified as a combustible liquid.

**Special Fire Fighting Procedures:**

Wear positive-pressure breathing apparatus and full protective clothing.

**Unusual Fire and Explosion:**

This product does not ignite readily, but may burn at a very high temperature. The fire may produce irritating or poisonous gases. Runoff from fire control area or dilution water may cause pollution. If surface water is contaminated, contact local authorities.

## 6. Accidental Release Measures:

**Steps to be Taken in Case Material is Released or Spilled:**

Do not touch spilled material. See Section 8 for Personal Protective Equipment. Contain and absorb spilled material on Dri-Rite, sand or other inert absorbent. Collect into drums; cover and label for disposal. Flush area with water if possible.

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## 7. Handling and Storage:

### Precautions to be Taken:

STORAGE: Store in original container in a locked storage area inaccessible to children or pets. Do not store near food or feedstuffs. Keep tightly closed when not using.

### Other Precautions:

NI

## 8. Exposure Controls/Personal Protection:

### Ventilation Requirements:

Good local ventilation is recommended; mechanical ventilation may be used if exposure limits may be exceeded.

### Personal Protective Equipment:

CAUTION: Harmful if swallowed. Avoid contact with eyes, skin or clothing. Avoid breathing of spray mist. Wash hands after using. Wear protective clothing when handling or applying this product, including long pants, long-sleeved shirt, and impermeable gloves and boots.

PROTECTIVE CLOTHING: Wear long sleeved shirt, long pants, socks, shoes, and chemical resistant gloves.

EYE PROTECTION: Safety glasses or goggles are recommended.

RESPIRATORY PROTECTION: If exposure limits may be exceeded, wear a respirator with an organic-vapor removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a NIOSH approved respirator with any R, P or HE filter.

## 9. Physical and Chemical Properties:

Boiling Point: 212°F

Melting Point: NI

Evaporation Rate (Butyl Acetate = 1): NI

Vapor Pressure (mm Hg.): NI

Vapor Density (Air = 1): NI

Specific Gravity (H<sub>2</sub>O = 1): 1.14700

Solubility in Water: Infinite

Appearance and Odor: Light yellow liquid;

### Other Information:

pH: 5.0--7.0

Freezing point: <35°F

Density: 9.55 pounds/gallon

## 10. Stability and Reactivity:

### Stability:

Stable.

### Incompatibility (Materials to Avoid):

Avoid contact with acids and metals such as zinc, aluminum, copper and tin. In the presence of these metals, arsenic can combine with nascent hydrogen to form arsine gas, which is colorless and highly poisonous, with a mild garlic odor.

### Decomposition/By-Products:

May produce gases such as HCl, organo chlorides, nitrogen oxides, and carbon monoxide when burning. MSMA, in the presence of many metals, can react with nascent hydrogen to form arsine gas.

### Hazardous Polymerization:

Will not occur.

## 11. Toxicological Information:

No toxicological data available.

## 12. Ecological Information:

Do not apply directly to water. Do not contaminate waters used for domestic consumption, or by wildlife or aquatic life, or for irrigation purposes. Do not apply when weather conditions favor drift from treated area. Do not apply where runoff is likely to occur. Do not contaminate water when disposing of equipment washwaters.

## 13. Disposal Considerations:

PESTICIDE DISPOSAL: Securely wrap original container in several layers of newspaper and discard in trash.

CONTAINER DISPOSAL: Do not reuse container. Rinse thoroughly before discarding in trash.

Dispose of DOT drum, waste water and contaminated absorbent according to State, Local, and Federal regulations.

## 14. Transport Information:

The following guidelines apply for domestic ground transport. If shipping by air or ocean, please contact our Transportation Dept.

Freight Class: Herbicides, NOI - NMFIC #50320

In our current available sizes, this product does not qualify as a Hazardous Material.

## 15. Regulatory Information:

OSHA STATUS: This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA STATUS: This product is exempt from TSCA Regulation under FIFRA Section 3(2)(B)(ii) when used as a pesticide.

CERCLA REPORTABLE QUANTITY: 6 pounds of the formulation which contains 1 pound of Arsenic

### SARA TITLE III:

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES: None

SECTION 311/312 HAZARD CATEGORIES: Immediate Health Hazard, Delayed Health Hazard

SECTION 313 TOXIC CHEMICALS: Arsenic Compounds N020

RCRA STATUS: When discarded in its purchased form, this product is a listed RCRA hazardous waste and should be managed as a hazardous waste. (40 CFR Part 261.20-24)

## 16. Other Information:

REASON FOR ISSUE: To revise the Product Name and the EPA Registration No.

NOTE: NI means not indicated.

The information and statements in this Material Safety Data Sheet are believed to accurately reflect the scientific evidence used in making the hazard determination, but is not to be construed as a warranty or representation for which we assume legal responsibility. Additional information may be necessary or desirable depending on particular, exceptional or variable conditions or circumstances of use or storage or because of locally applicable laws or government regulations. Therefore, you should use this information only as a supplement to other information available to you and must make independent determinations of the suitability of the information for your particular circumstances or conditions and of the completeness of the information available from all sources to assure both the proper use of the material described herein and the safety and health of employees.

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Other Information (Continued)