



## SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### 1.1. Guaranteed by

PowerAG  
2213 Leabrook Road, Lancaster PA 17601  
1-800-842-2578 powerag.com

### 1.2. Product name

MaNage HL

### 1.4. Date of issue

11/20/21

## SECTION 2: HAZARDS IDENTIFICATION SUMMARY

### 2.1. Hazard classification

Serious eye damage/eye irritant: Category 1.  
Reproductive toxicity: Category 2.  
Skin corrosion/irritation: Category 2.

### 2.2. Signal word

"DANGER"



### 2.3. Hazard statements

H315–Causes skin irritation.  
H318–Causes serious eye damage.  
H335–May cause respiratory irritation.  
H361–Suspected of damaging fertility or the unborn child.

### 2.4. Precautionary statements

#### (PREVENTION)

P210–Keep away from heat, sparks, open flames, and hot surfaces; No smoking.  
P264–Wash thoroughly after handling.  
P271–Use only outdoors in a well-ventilated area.  
P280–Wear protective gloves, eye protection, and face protection.

#### (RESPONSE)

P301+P312–If swallowed, call a POISON CENTER or doctor if you feel unwell.  
P330–Rinse mouth.  
P302+P352–IF ON SKIN wash with plenty of soap and water.  
P305+P351+P338–IF IN EYES rinse cautiously with water for 20 minutes, remove contact lenses and continue rinsing.  
P337+P313–If eye irritation persists, get medical advice/attention.  
P362+P364–Take off contaminated clothing.

### 2.4. Precautionary statements, storage

P403+P233–Store in well-ventilated place; Keep container tightly closed.  
P501–Dispose of container in accordance with local regulations.

## SECTION 3: COMPOSITION & INFORMATION ON INGREDIENTS

### Chemical ingredients:

N-(n-butyl) thiophosphoric Triamide  
Dicyandiamide  
Dimethylsulfoxide  
Stabilizers and Fragrance

### Percentage of weight:

25–35%  
5–15%  
50–70%  
Balance

### Percentage of weight:

94317-64-3  
461-58-5  
67-68-5  
Multiple

## SECTION 4: FIRST AID MEASURES

**If in eyes:** Flush with clean running water for at least 15 minutes; If irritation persists, get medical attention.

**If on skin:** Remove contaminated clothing. Wash thoroughly with soap and water; If irritation persists, or if a rash develops, get medical attention.

**If swallowed:** If conscious, drink 1 or 2 glasses of water and get medical attention; Do not induce vomiting or give anything by mouth to an unconscious person.

**If inhaled:** Remove to fresh air; If irritation persists, get medical attention.

## SECTION 5: FIREFIGHTING MEASURES

**Flash Point (°F/test method):** 192 °F

**Flammable Limits (LFL & UFL):** Not established.

**Extinguishing Media:** Considered non-combustible; Use foam, CO<sub>2</sub>, dry chemical, or water.

**Hazardous Combustion Products:** Vapors are non-toxic and non-irritant.

**Special Firefighting Procedures:** Heating to dryness may cause the release of carbon dioxide gas; Cool containers with water spray.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Steps to be taken if material is released or spilled:** Ventilate area; Stop leak, contain spill, and absorb with soil or natural absorbents; Liquid is corrosive; Ensure pumping equipment is 316 stainless steel; Sweep up waste and place in a container for disposal; Keep spills and rinsate out of municipal sewers and open bodies of water; Uncontaminated spilled material may be reused.

## SECTION 7: HANDLING AND STORAGE

**Handling:** Keep away from sources of ignition. Avoid inhalation of mists, vapors/spray, and contact with eyes, skin, and clothing. Wear personal protective equipment. Do not use in areas without adequate ventilation. Avoid prolonged exposure. Wash thoroughly after handling. Do not empty into drains. Handle and open container with care. Wash before eating, drinking, or smoking.

**Storage:** Store in the original labeled container in a cool place away from direct sunlight. Keep separate from food and feed products and out of reach of children and animals. Avoid storage at temperatures of 100°F or higher. Corrosive to steel, aluminum, and brass. Use with stainless steel or PVC fittings.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Occupational Exposure Limits

US Workplace Exposure Level TLVs: No data available.

US Workplace Exposure Level PELs: No data available.

Biological Limit Values: No listings.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**Appearance and Odor:** Dark orange-yellow liquid with organic odor.

**Solubility:** Soluble

**pH:** NA

**Specific Gravity (Water=1):** 1.16

**Vapor Pressure:** Not established.

**Flash Point:** 192 °F

**Bulk Density:** 9.7 lbs/gallon

**Boiling Point:** Not established.

**Evaporation Date:** Not established.

Note: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot as specification items.

## SECTION 10: STABILITY AND REACTIVITY

**Stability:** Stable for at least 2 years under normal conditions.

**Incompatibility:** Metal nitrates (potentially explosive reaction), acids; Will corrode copper, zinc, aluminum, and their alloys.

**Hazardous Decomposition Products:** Heating to dryness may cause the release of methanethiol, formaldehyde, dimethyl disulfide, sulfur dioxide, oxides of carbon, nitrogen, sulfur, and other compounds.

**Hazardous Polymerization:** Will not occur.

## SECTION 11: TOXICOLOGICAL INFORMATION

**Acute Oral LD<sub>50</sub> (rat):** Not established.

**Acute Dermal LD<sub>50</sub> (rat):** Not established.

**Eye Irritation (rabbit):** Not established.

**Inhalation LC<sub>50</sub> (rat):** Not established.

**Carcinogenic Potential:** None listed in OSHA, NTP, IARC, or ACGIH.

**Skin Irritation (rabbit):** Not established.

**Skin Sensitization (guinea pig):** Not established.

## SECTION 12: ECOLOGICAL INFORMATION

**Ecotoxicology:** Product data not available.

## SECTION 13: DISPOSAL CONSIDERATIONS

Do not reuse containers. Rinse container thoroughly, adding rinsate to the tank mix. Offer for recycling at an ACRC site or dispose of in a sanitary landfill. Avoid contaminating water by disposal of equipment wash waters or other product wastes.

## SECTION 14: TRANSPORT INFORMATION

**DOT Shipping Description:** Not regulated as dangerous goods.

## SECTION 15: REGULATORY INFORMATION

### NFPA & MHIM Hazard Ratings:

NFPA		HMIS
2 Health	0 Least	2 Health
0 Flammability	1 Slight	0 Flammability
0 Instability	2 Moderate	0 Reactivity
	3 High	H PPE
	4 Severe	

### SARA Hazard Notification/Reporting

**SARA Title III Hazard Category :** Immediate (Y), Fire (N), Sudden Release of Pressure (N), Delayed (N), Reactive (N)

**Reportable Quantity (RQ) under U.S., CERCLA:** Not listed.

**SARA, Title III, Section 313:** Not listed.

**RCRA Waste Code:** Not listed.

## SECTION 16: OTHER

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