

# SAFETY DATA SHEET

**SDS REVISION DATE: February 2016** 

GMS Industrial Supply, Inc. 212 Denn Lane, Virginia Beach, VA 23462 (855) GRN-OGER • www.GreenOger.com

Product ID: GMS2105CN, GMS210515CN,

**GMS2105DR, GMS210530DR** 

24-Hour Emergency Telephone: 1-800-424-9300 CHEMTREC

## **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**



# **Tower Trooper**

**Product Use: Mixture, components for Water Treatment Applications** 

24 Hour Emergency Response No.: 800-424-9300 CHEMTREC®

GMS Industrial Supply, Inc. 212 Denn Lane Virginia Beach, VA. 23462

(757) 473-1467

Personal Protective Equipment(s)

GHS Pictogram(s) DOT Symbol(s)

**HMIS** 









Non Regulated Materials



To the best of our knowledge, this Safety Data Sheet is prepared to comply with US OSHA 29 CFR1910.1200 and other governmental agencies both domestic and foreign. Hazard and precautionary statements are based on maximum listed concentrations of each hazardous ingredient. Unlisted ingredients are not "hazardous" per the OSHA Hazard Communication Standard (29 CFR 1910.1200) and/or other governmental agencies.

## **SECTION 2. HAZARDS IDENTIFICATION**

# **EMERGENCY OVERVIEW**

GHS Label Element Signal Word GHS Symbol(s)

**Hazard Statements** 

**Precautionary Statements** 

"DANGER"



H303-May be harmful if swallowed H316-Causes mild skin irritation. H320-Causes eye irritation. P102-Keep out of reach of children. P233-Keep container tightly closed.

P262-Do not gets in eyes, on skin or on clothing.

P264-Wash thoroughly after handling.

P281-Use personal protective equipment as required.

SECTION 3. PRODUCT INGREDIENTS					
Hazardous Components	% by Wt.	CAS Number	Hazard Statements (Section 15)	Hazard Symbol(s)	
Potassium Hydroxide 45%	0-10	1310-58-3	H302-Harmful if swallowed. H314-Causes severe skin burns and eye damage. H332-Harmful if inhaled. H412-Harmful to aquatic life with long lasting effects.		
1-Hydroxyethylidene-1,1-diphosphonic Acid	0-10	2809-21-4	H302-Harmful if swallowed. H314-Causes severe skin burns and eye damage. H332-Harmful if inhaled.		
Polymaleic Acid based Polymeric	0-10	26099-09-2	H302-Harmful if swallowed. H314-Causes severe skin burns and eye damage. H332-Harmful if inhaled.		
Sodium Molybdate	0-5	10102-40-6	H303-May be harmful if swallowed. H316-Causes mild skin irritation. H320-Causes eye irritation	<u>(!)</u>	
Non Hazardous Ingredient	70-100				
Total	100.00	-2		¥	

#### **SECTION 4. FIRST AID MEASURES**

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing difficult, give oxygen.

Call a physician if any difficulties persist.

Eyes: Flush eyes with a large amount of water for 15 minutes. Seek medical attention immediately if any irritation persists. After first aid,

get appropriate in-plant, paramedic or community medical support.

**Skin:** Wash affected areas thoroughly with soap and water for at least 15 minutes. Cover the irritated skin with an emollient. Remove

contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Seek

medical attention if any irritation persists.

Ingestion If person can swallow, give 2 glasses of water to drink. DO NOT INDUCE VOMITING! After first aid, seek appropriate in-plant,

paramedic, or community medical support. Never give anything by mouth to an unconscious person.

After first aid, get appropriate in-plant, paramedic, or community medical support,

#### **SECTION 5. FIRE FIGHTING MEASURES**

Flammability Classification: Non Flammable

Suitable Extinguishing Media: Water fog, Alcohol foam, Carbon Dioxide, Dry Chemical

Unusual Fire or Explosion Hazards: None known other than material can splatter above 100°C/212°F. Hazardous Combustion Products: Unknown but carbon monoxide may be released on burning.

**Fire-Fighting Instructions:** Do not release runoff from fire control methods to sewers or waterways.

**Fire-Fighting Equipment:**Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

# **SECTION 6. ACCIDENTIAL RELEASE MEASURES**

Personal Precautions: Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation

Small Spills: Absorb spill with paper towel or similar absorbent; or flush to sewer or ground with large amounts of water.

Large Spills: For large spills, dike far ahead of liquid spill for later disposal. Do not release into sewers or waterways. Absorb spill Containment: with vermiculite, oil dry or similar non-reactant absorbent. Solidified product represents no environmental hazard.

**Cleanup:** Accumulate the absorbed materials and dispose of according to federal, state and local regulations.

Environmental Follow applicable OSHA/CERCLA or any other regulations (29 CFR 1910.120) as well as any state or local regulations that

**Precautions:** may apply.

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

Precautions for safe handling: Use the recommended safety controls and personal protective equipment as outlined. Fully review all data before handling of the material itself. Avoid contact with skin or eyes. Avoid breathing dust or mist. Keep from contact with clothing and other

combustible materials. Observe good personal hygiene and housekeeping practices. Wash thoroughly after handling. Do not store in direct sunlight. Store in a tightly closed container. Store in a cool dry, well ventilated area. Do not store this

**safe Storage:** material near any strong acids, bases, oxidizers, flammables or any other type of reactive material. Do not expose the material to temperature extremes. Do not store product above 77°F.

Regulatory

**Conditions for** 

Store materials according to all local, state and federal guidelines that are established for non-regulated chemical products.

Requirements:

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with limit values that require monitoring at the workplace:

**ACGIH TLV/TWA STEL Hazardous Components CAS Number OSHA PEL/TWA STEL** Potassium Hydroxide 45% 1310-58-3 2 mg/m3 2 mg/m3 1-Hydroxyethylidene-1,1-diphosphonic Acid 2809-21-4 None Est. None Est. **Polymaleic Acid based Polymeric** 26099-09-2 None Est. None Est. Sodium Molybdate 10102-40-6 5mg/m3 Dust 0.5mg/m3

**Engineering Controls:** 

Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2).

Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it

Other

at its source.

Respiratory Protection: Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134)

and, if necessary, wear a MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or non-routine operations (cleaning spills, reactor vessel, or storage tanks), wear an SCBA. Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres. If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage

areas.

Personal Protective Wear protective eyeglasses or chemical safety goggles, per OSHA eye-and face-protection regulations (29 CFR

**Equipment (PPE):** 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in

conjunction with contact lenses. At a minimum wear safety glasses with side shields as well as chemically protective

gloves and aprons to prevent prolonged or repeated skin contact.

Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

Contaminated Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your

**Equipment:** shoes and clean personal protective equipment.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before

eating, drinking, smoking, using the toilet, or applying cosmetics.

**Work/Hygienic Practices** Consistent use of afore-mentioned personal protective equipment is essential in preventing injuries or irritation.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES** Liquid Odor: Characteristic odor Form: Appearance: Light amber color Vapor Pressure: 10-12 Flammability: pH: Same as water Non Flammable Specific Gravity: 1.02+/-Vapor Density: Flash Point: NIA Same as water Water Solubility: **Evaporation Rate:** Complete 1.00 **Auto Ignition Temp:** NIA Other Solubilities: Not Determined **Melting Point:** LEL: Not Determined NA 90% % Volatile: **Freeze Point: UEL:** Not Determined Approx. 32°F **Boiling Point:** 212°F+/-**Decomposition Temp:** Not Determined

**SECTION 10. STABILITY AND REACTIVITY** 

Stability: This product is stable at room temperature in closed containers under normal storage and handling conditions.

However, avoid temperature extremes.

**Conditions to Avoid:** Excessive temperature, contact with any type of reactive chemicals

Hazardous polymerization will not occur. **Hazardous Polymerization:** 

**Chemical Incompatibilities:** Avoid contact with Strong Acids, Strong Alkalis, Oxidizers or any other type of reactive material.

**Hazardous Decomposition** There are no known hazardous decomposition products for this material unless the material is burned in which

case undetermined evolution of toxic gases may occur.

**SECTION 11. TOXICOLOGICAL INFORMATION** LD50 of Ingredient **LD50 Dermal of Ingredient Hazardous Components** CAS No.: (Specify Species & Route) (Specify Species) Potassium Hydroxide 45% 1310-58-3 365mg/kg Oral Rat Corrosive 2400mg/kg Oral Rat 1-Hydroxyethylidene-1,1-diphosphonic Acid 2809-21-4 Irritant 1800mg/kg Oral Mouse 15000mg/kg Oral Rat Polymaleic Acid based Polymeric 26099-09-2 >5010mg/kg Rabbit LC50-6.5mg/kg 1/6hr Rat 10102-40-6 Irritant Sodium Molybdate 4233mg/kg Oral Rat

**Primary Irritant Effects:** 

**Routes of Entry:** Absorbed through skin, Dermal Contact, Eye Contact, Inhalation.

Eye Effects: Irritation to eyes & possible burning if materials are not immediately rinsed from the eye.

**Acute Inhalation Effects:** Might produce irritation to respiratory system.

Skin Effects: Irritation to skin.

None

**Acute Oral/Ingestion Effects:** Not tested for this blend. Harmful if swallowed.

**Chronic Effects on Humans:** No specific studies have been conducted for this specific blend. Other Toxic Effects on Humans: No specific studies have been conducted for this specific blend.

Special Remarks- Human Chronic Effects: No other information for chronic effects on humans.

Carcinogenity: IARC, NTP, and OSHA do not list this product or its components as a carcinogen.

Mutagenicity: No mutagenic effects are known to be applicable for the formulation components of this product.

Teratogenicity: No studies have been performed for this specific product blend. No studies have been conducted for this specific product blend. **Target Organ Statement:** 

SECTION 12. ECOLOGICAL INFORMATION					
Hazardous Components	CAS No.:	LC:50	EC:50		
Potassium Hydroxide 45%	1310-58-3	80mg/l 48hr Daphnia Magna 179mg/l 96hr Fathead Minnow	60mg/l 48hr Daphnia Magna 61mg/l 96hr Algae		
1-Hydroxyethylidene-1,1-diphosphonic Acid	2809-21-4	>300mg/l 96hr Fish	>500mg/l 48hr Daphnia Magna IC50=300mg/l 72hr Algae		
Polymaleic Acid based Polymeric	26099-09-2	3.8 mg/l 96hr Lepomis Macrochirus	19mg/l 48h Daphnia Magna EC50 - 0.3mg/l 96hr Algae		
Sodium Molybdate	10102-40-6	800 mg/l 96 hr Rainbow Trout	No data available at publication		

Special Remarks-Products of biodegradation: The Component(s) of this product are not subject to rapid biodegradation.

**SECTION 13. WASTE DISPOSAL CONSIDERATIONS** 

**Disposal Regulatory Requirements:** Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable federal,

state and local regulations.

Triple rinse the empty containers with water before disposal to reconditioned or land fill or garbage. **Container Cleaning and Disposal:** 

**SECTION 14. TRANSPORTATION INFORMATION** 

DOT/GHS Shipping **Proper Shipping Name: NON REGULATED MATERIALS** Label Symbol(s):

Contains:

**Products:** 

**Marine Pollutant Hazard Class: UN Number: Packing Group: ERG Number:** None None

Non Hazardous No NA NA NA

Special Shipping Notations: Note: Transportation information provided is for reference only. Client is urged to consult CFR 49, Parts 100-177, IMDG, IATA, EU, United Nations, TDG and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

#### **SECTION 15. REGULATORY INFORMATION**

Hazard Symbol(s):

**(!)** 

**Hazard Statements:** H303-May be harmful if swallowed.

H316-Causes mild skin irritation.

H320-Causes eye irritation

Safety Phrases: S3/7/9/49-Keep only in the original container tightly closed in a cool well-ventilated place.

S24/25-Avoid contact with skin and eyes.

S26-In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39-Wear suitable protective clothing, gloves and eye/face protection.

S62-If swallowed do not induce vomiting: seek medical advice immediately and show this container or label.

Not listed

**EPA Regulations:** 

RCRA Hazardous Waste Number: Product blend is not listed (40 CFR 261.33)

RCRA Hazardous Waste Classification (40 CFR 261.): Product blend is not classified.

CERCLA Hazardous Substance (40 CFR 302.4):

Product blend is unlisted specific per RCRA, Sec. 3001; CWA, Sec. 311 (b)

(4); CWA, Sec. 307 (a),

CAA, Sec. 112 CERCLA Reportable Quantity (RQ): Contains: Potassium Hydroxide 1,000 lb

SARA 313 Codes: This product may be subject to the reporting requirements of section

313 of the Emergency Planning and Community Right to Know Act of 1986 and 40CFR372.

SARA Toxic Chemical (40CFR 372.65):

Sara 302/304 Extremely Hazardous Substance (40CFR 355)

Not listed
Sara 313 SARA EHS (Extremely Hazardous Substance) (40 CFR 355):

Not listed
Threshold Planning Quantity (TPQ):

Not listed

OSHA Regulations:

Air Contaminant (20 CFR 1910.1000, Table Z-1, Z-1-A):

OSHA Specifically Regulated Substance (29 CFR 1910.):

Not listed.

State Regulations:

As a product blend, the materials are generally not listed. Check with your local state regulatory board for more detailed

information regarding the specific components of this product.

All components of this product are listed in the U.S. Environmental Protection Agencies, Toxic Substance Control Act

National Regulations: (TSCA) Chemical Substance Inventory.

All components of this product are listed on the Canadian Non-Domestic Substances List (NDSL).

### **SECTION 16. OTHER INFORMATION**

## **Prepared by: Technical Department**

This information is based on our current knowledge and is intended to describe the product for the purpose of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Our company assumes no responsibility for personal injury or property damage to the vendee, users or third parties caused by the material. Such vendees or users assume all risks associated with the use of this material.

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