

# HEICO CHEMICALS, INC.

## CAMBREX FINE CHEMICALS GROUP

PERMA WASH

Page: 1  
16 Sections Printed: 07/29/93

original: 09/04/88  
revised: 07/16/93

### MATERIAL SAFETY DATA SHEET

#### SECTION 1. PRODUCT IDENTIFICATION

Manufacturer: HEICO Chemicals, Inc.  
Route 611  
Delaware Water Gap, PA 18327

Information and Emergency Phone during business hours: 717-420-3900

For use only in the event of chemical emergencies involving  
a spill, leak, fire, or accident with this material:  
Call CHEMTREC 800 424-9300

Trade Name.....: PERMA WASH  
Chemical Name.....: Mixture  
Synonyms.....: None  
.....  
CAS #.....: Mixture  
Chemical Family.....: N/A  
Product Code.....: PWA  
Product Use.....: N/A  
PIN#.....: N/A  
WHMIS Class.....: Not established

#### SECTION 2. COMPOSITION/INFORMATION ON COMPONENTS

COMPONENTS	CAS #	WEIGHT %
** Trade Secret **		
Ammonium Sulfite, Monohydrate	10196-04-0	15-20%
Sodium Sulfite	7757-83-7	6-7%
** Trade Secret **		

#### SECTION 3. HAZARDS IDENTIFICATION

##### Emergency Overview:

Colorless liquid with slight ammoniacal odor. Toxic gas may be produced in a fire. Contact with skin or eyes may cause irritation.

##### Breathing:

If inhaled may cause coughing or difficult breathing. Allergic reaction may cause difficult breathing, flushing, rash, increased heart rate or anaphylactic shock.

continued ...

N/A = Not Available

**SECTION 3. HAZARDS IDENTIFICATION**

... continued

**Skin Contact:**

May cause skin irritation.

**Eye Contact:**

Substance may cause severe eye irritation. Injury may be permanent.

**Swallowing:**

May cause nausea, vomiting, diarrhea, stomach pain and bleeding.

**Long Term Health Effects:**

Not known.

**Conditions Aggravated By Exposure:**

Asthma; other respiratory disorders such as bronchitis, emphysema, bronchial hyperactivity; skin allergies; eczema.

**SECTION 4. FIRST AID MEASURES****Breathing:**

Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

**Skin:**

Immediately flush with large amounts of water for at least 15 minutes. Use soap if available. Remove contaminated clothing, including shoes, after flushing has begun. Get prompt medical attention if symptoms occur. Thoroughly wash or discard clothes and shoes before reuse.

**Eye:**

Immediately flush eyes with plenty of water for at least 15 minutes, holding eyelids apart. Get medical attention if irritation or other symptoms develop.

**Swallowing:**

Dilute with milk or water. Get immediate medical attention. Never give anything by mouth to an unconscious person.

**SECTION 5. FIRE FIGHTING MEASURES**

Flash Point.....	: N/A	N/A
method.....	: N/A	
Lower Explosive Limit.....	: N/A	
Upper Explosive Limit.....	: N/A	
Auto Ignition Temperature....	: N/A	
Extinguishing Media.....	: CO2, dry chemical, alcohol foam	

**Firefighting Procedures:**

Evacuate area and fight fire from safe distance. Wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH-approved or equivalent) and full protective gear.

**Special Firefighting Procedures:**

Can burn in fire releasing toxic vapors. As in any fire wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear.

**Unusual Fire and Explosion Hazards:**

May generate ammonia gas, sulfur dioxide or trioxide gases

**Sensitivity To Explosion:**

Explosion by mechanical impact - none.  
Explosion by static discharge - none.

**Conditions Of Flammability:**

Not flammable.

**SECTION 6. ACCIDENTAL RELEASE MEASURES****General:**

This material should be prevented from contaminating soil or from entering sewerage and drainage systems and bodies of water. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Prevent skin and eye contact. See Section 8 Exposure Controls/Personal Protection.

**Small Spill:**

Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container.

continued ...

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

... continued

**Large Spill:**

Shut off leak, if safe to do so. Clean up spills immediately, observing precautions in Protective Equipment section. Contain spilled liquid with sand or earth. DO NOT use combustible materials such as saw dust. Retain all contaminated water for removal and treatment.

**SECTION 7. HANDLING AND STORAGE****Handling:**

Use with adequate ventilation. Avoid contact with skin and eyes. Wash thoroughly after handling. Follow all MSDS/label precautions even after container is emptied because they may retain product residues.

**Storage:**

Keep container closed when not in use.

**SECTION 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION****Exposure Levels:**

COMPONENT -----	OSHA ----			ACGIH ----			UNITS -----
	TWA	STEL	CEL	TWA	STEL	CEL	
None	Not available						

**Engineering Controls:**

Source of fine spray, mist or vapor should be controlled with local exhaust ventilation.

continued ...

**SECTION 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION ... continued**

**Respiratory Protection:**

A NIOSH/MSHA approved air purifying respirator with dust filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits if established. Consult with respirator's manufacturer to determine the appropriate type of equipment for a given application. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection. A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

**Eye/Face Protection:**

Wear safety glasses with side shields (or goggles) and a face shield.

**Skin Protection:**

Wear impervious gloves and chemical protective clothing, including impervious sleevelets, overalls, aprons or boots as needed to prevent contact with skin.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance.....	:	Colorless Liquid	
Odor.....	:	Slight ammoniacal	
Initial Boiling Point.....	:	N/A	N/A
Final Boiling Point.....	:	N/A	N/A
Specific Gravity (Relative to Water).....	:	1.15-1.16	
Vapor Density(relative to air).....	:	N/A	
Vapor Pressure (mm Hg).....	:	N/A	
pH.....	:	N/A	
Solubility in Water.....	:	Miscible	
Freezing/Melting Point.....	:	N/A	
Octanol/water Partition Coefficient.....	:	N/A	
Odor Threshold.....	:	N/A	N/A
Flash Point.....	:	N/A	
Auto-ignition Temperature.....	:	N/A	

continued ...

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES		... continued
Explosive Properties.....	:	None
Oxidizing Properties.....	:	None
Viscosity.....	:	N/A
Evaporation Rate (relative to n-Butylacetate)	:	N/A

SECTION 10. STABILITY AND REACTIVITY	
Stable:	Yes.
Strong Oxidizer:	No.
Hazardous Polymerization:	Not prone to hazardous polymerization.
Incompatibility:	Oxidizing agents.
Conditions to Avoid:	High temperatures
Hazardous Decomposition Products:	When heated to decomposition this material releases toxic fumes of SOx, and Ammonia.

SECTION 11. TOXICOLOGICAL INFORMATION	
Toxicology:	Not available

SECTION 12. ECOLOGICAL INFORMATION	
Ecotoxicological Information:	Not available.
Chemical Fate:	Not available.

N/A = Not Available

**SECTION 13. DISPOSAL CONSIDERATIONS**

**Waste Disposal:**

Dispose of in accordance with all federal, state, and local regulations.

**Container Disposal:**

Dispose of in accordance with all federal, state, and local regulations.

**SECTION 14. TRANSPORT INFORMATION**

DOT Shipping Name...: Not Regulated  
Hazard Class.....:  
Packing Group.....:  
UN/NA No. ....:  
DOT Labels.....:  
Subsidiary Label.....:  
DOT Placards.....:

IMO Shipping Name...: Not Regulated  
Hazard Class.....:  
Packing Group.....:  
UN No. ....:  
IMO Labels.....:  
Subsidiary Label.....:

IATA Shipping Name...: Not Regulated  
Hazard Class.....:  
Packing Group.....:  
UN No. ....:  
IATA Labels.....:  
Subsidiary Label.....:

**SECTION 15. REGULATORY INFORMATION**

SARA 311/312 Chronic Health Hazard : no  
SARA 311/312 Acute Health Hazard.. : yes  
SARA 311/312 Fire Hazard..... : no  
SARA 311/312 Sudden Pressure..... : no  
SARA 311/312 Reactivity Hazard.... : no

Section 302 Extremely Hazardous  
continued ...

SECTION 15. REGULATORY INFORMATION

... continued

Ingredients	CAS #	Weight %	TPQ
** None **			

CERCLA Hazardous Substances:

Ingredients	CAS #	Weight %	RQ
Ammonium Sulfite, Monohydrate	10196-04-0	15-20	5000

Section 313 Toxic Chemicals:

Ingredients	CAS #	Weight %
** None **		

NJ Environmental Hazardous Substance List:

Ingredients	CAS #
** None **	

California Proposition 65 Ingredients:  
This product contains the following chemicals  
known to the state of California to cause  
cancer or reproductive toxicity:

Ingredients	CAS #	Weight %
** None **		

Reported in TSCA inventory:  
Yes.

SECTION 16. OTHER INFORMATION

HMIS Hazard Ratings:

Health..... : 2  
Fire..... : 0  
Reactivity..... : 0

NFPA Hazard Ratings:

Health..... : 2  
Fire..... : 0  
Reactivity..... : 0  
Specific Hazard.... : None

Additional Regulatory Information:  
N/A

continued ...



## SECTION 16. OTHER INFORMATION

... continued

**NOTE:**

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of HEICO Chemicals, Inc. The data on this sheet relates only to the specific material designated herein. HEICO Chemicals, Inc. assumes no legal responsibility for the use or reliance upon these data.