

**HAEMO-SOL, INC.<sup>®</sup>**  
*The Original "Hospital Specified" Cleaner*  
**MATERIAL SAFETY DATA SHEET**

**1. IDENTIFICATION OF THE SUBSTANCE**

**Product Name:** Haemo-Sol Non-Sudsing

**Product Code:** 026-051

**Product Use:** Low Foaming Cleaner

**Manufacturer:**

Haemo-Sol, Inc.  
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Baltimore, MD 21204

**Tel:** 410-821-5676

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**2. HAZARDS IDENTIFICATION**

**PHYSICAL HAZARDS:** May cause irritation to eyes, skin, and respiratory tract.

**HEALTH HAZARDS (ACUTE AND CHRONIC):**

**Eye Contact:** May cause irritation and redness. Contact of Sodium Carbonate and Sodium Metasilicate are corrosive to eyes and cause conjunctival edema and corneal destruction.

**Skin:** Prolonged contact may irritate skin and cause redness to occur.

**Inhalation:** May irritate the upper respiratory tract and mucus membranes. Urea may be absorbed into the bloodstream with symptoms similar to ingestion.

**Ingestion:** May cause discomfort/diarrhea or stomach distress.

**SIGNS AND SYMPTOMS OF EXPOSURE:**

**Eye Contact:** Burning, irritation, pain, and redness of eyes. Risk of serious injury from Sodium Carbonate increases if eyes are kept tightly closed and other symptoms may appear from absorption of into the bloodstream via the eyes.

**Skin Contact:** Irritation may include redness, itching and pain. Sodium Metasilicate may cause severe burns.

**Inhalation:** Sneezing, coughing, shortness of breath.

**Ingestion:** Swallowing Sodium Metasilicate can cause severe burns of the mouth, throat, esophagus and stomach.

**3. COMPOSITION AND INGREDIENTS**

CHEMICAL NAME	CAS #:	WT/WT %	EINECS #	R Phrases
Sodium Tripolyphosphate	7758-29-4	30-60	231-838-7	NE
Sodium Carbonate	497-19-8	15-40	207-838-8	R36
Sodium Metasilicate	6834-92-0	10-30	229-912-9	R34,R37
Ethylene/Propylene Oxide Copolymer	9003-11-6	3-7	NE	NE

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**4. FIRST AID INFORMATION**

**EYE CONTACT:** Flush with copious amounts of tap water for 15 minutes; seek medical attention.

**SKIN CONTACT:** Remove any contaminated clothing. Wash skin with soap or mild detergent and water for at least 15 minutes. Get medical attention if irritation develops or persists. Wash clothing before re-use.

**INHALATION:** Remove to fresh air. If having difficulty breathing, contact emergency personnel immediately.

**INGESTION:** If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

**NOTES TO MEDICAL DOCTOR:**

This product contains sodium carbonate. While no adverse complications are expected, consider endoscopy in all suspected cases of poisoning. Perform blood analysis to determine if dehydration, acidosis, or other electrolyte imbalances occurred.

**5. FIRE-FIGHTING MEASURES**

**FLASH POINT (METHOD USED):** N/A    **EXPLOSIVE LIMITS:**    *LEL:* N/A        *UEL:* N/A

**EXTINGUISHING MEDIA:** Water spray, dry chemical, alcohol foam, or carbon dioxide.

**SPECIAL FIRE FIGHTING PROCEDURES:**

Use self contained breathing apparatus and protective equipment.

**FIRE / EXPLOSION HAZARDS:**                                  None

**SENSITIVITY TO IMPACT:**    None

**SENSITIVITY TO STATIC DISCHARGE:**                                  None

**6. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:** Refer to Section 8

**Environmental Precautions:** None

**Clean-up Procedures:** Pick up and place in a suitable container for reclamation or disposal. Do not let this chemical enter the environment.

**7. HANDLING AND STORAGE**

**Handling Requirements:** Keep out of reach of children. Do not get in eyes, on skin, or on clothing.

**Storage Conditions:** Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage.

**Suitable Packaging:** Plastics, stainless steel

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**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**EXPOSURE GUIDELINES:**

Federal guidelines treat the ingredient(s) in this product as a nuisance dust, as no product-specific guidelines have been issued for exposure.

Particulates Not Otherwise Regulated:

OSHA (PEL/TWA): 15 mg/m<sup>3</sup> (total dust); 5 mg/m<sup>3</sup> (resp fraction)

**Engineering Controls:** Provide local exhaust ventilation.

**Respiratory Protection:** None required for expected product use.

**Hand/Skin Protection:** Protective gloves and body-covering clothing recommended.

**Eye Protection:** Safety glasses recommended. Have eye-wash facilities immediately available.

**General Hygiene Considerations:** Wash hands thoroughly after handling. Food, beverages, and tobacco products should not be carried, stored, or consumed where this material is in use.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Boiling Point:** N/A

**Vapor Pressure (mmHg):** N/A

**Vapor Density (Air-1):** N/A

**Order Threshold:** N/A

**Coefficient of Water/Oil Distribution:** N/A

**Scooped Density:** N/A

**Appearance and Odor:** White, free flowing powder and granules. No significant odor.

**Specific Gravity (H<sub>2</sub>O=1):** N/A

**Percent Volatile by Volume (%):** N/A

**Evaporation Rate (nBuOAc-1):** N/A

**Freezing Point:** N/A

**pH (1% solution):** 11.0-12.0

**Solubility in Water:** Appreciable

**Reserve Alkalinity:** N/D

**10. STABILITY AND REACTIVITY**

**Stability:** This product is stable under ordinary use and storage conditions.

**Incompatibility (Materials to Avoid):**

Avoid oxidizing agents and acids. Avoid contact with bare aluminum. Flammable hydrogen gas may be produced in contact with bare aluminum. Sodium Carbonate reacts with Fluorine, aluminum, phosphorous pentoxide, sulfuric acid, zinc, lithium, moisture, calcium hydroxide and 2,4,6-trinitrotoluene, and reacts violently with acids to form carbon dioxide. Sodium Metasilicate may react with ammonium salt solutions resulting in evolution of ammonia gas. Flammable hydrogen gas may be produced on contact with aluminum, tin, lead, and zinc. Carbon monoxide gas may be produced on contact with reducing sugars.

**Hazardous Decomposition/By Products:**

Carbon dioxide and carbon monoxide may form when heated to decomposition. Sodium Metasilicate forms sodium ions and silicic acid when heated to decomposition.

**Hazardous Polymerization:** Will not occur

**Conditions to Avoid:** Avoid heat, flames, ignition sources and incompatibles.

**Other Recommendations:** Read and follow all directions for use.

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**11. TOXICOLOGICAL INFORMATION**

**ACUTE EFFECTS**

**Eye Effects:** For Sodium Carbonate: rabbit: 50 mg severe  
For Polymer: rabbit: mildly irritating

**Skin Effects:** For Tripolyphosphate: Rabbit: 500 mg/24H Moderate  
For Sodium Metasilicate: Human (Std Draize): skin= 250 mg/24-hr, severe

**Dermal LD50:** For Tripolyphosphate: Skin, rabbit: >4640 mg/kg

**Oral LD50:** For Tripolyphosphate: Rat: 3120 mg/kg  
For Sodium Carbonate: Rat: 4090 mg/kg  
For Sodium Metasilicate: Rat: 1153 mg/kg  
For Polymer: Rat: 5000 mg/kg

**Inhalation LC50:** For Sodium Carbonate: Rat: 2300 mg/m<sup>3</sup>/2H

**Sensitization:** No data available for the product.

**CHRONIC EFFECTS**

**Carcinogenicity:** None of the components of this material are listed by IARC, NTP, OSHA, or ACGIH as carcinogens.

**Mutagenicity:** Sodium Carbonate has been investigated as a mutagen.

**Reproductive Effects:** Sodium Carbonate and Sodium Metasilicate have been investigated as a reproductive effector.

**Developmental Effects:** No data available for the product.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicological Information:**

For Sodium Carbonate: 96 Hr LC50 *Lepomis macrochirus*: 300 mg/L [static]  
48 Hr EC50 *Daphnia magna*: 265 mg/L

**Mobility:** No data available for the product.

**Persistence and Degradability:** No data available for the product.

**Bioaccumulative Potential:** No data available for the product.

**Other Adverse Effects:** No data available for the product.

**13. DISPOSAL CONSIDERATIONS**

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use, or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

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**14. TRANSPORT INFORMATION**

**DOT GROUND TRANSPORT**  
**PROPER SHIPPING NAME:** Not regulated.  
**TECHNICAL NAME:** NA  
**HAZARD CLASS:** NA  
**UN/NA NUMBER:** NA  
**PACKING GROUP:** NA  
**MARINE POLLUTANT:** No

**15. REGULATORY INFORMATION**

**UNITED STATES**

**29CFR 1910.1200 (OSHA):** None of the chemicals in this product are considered highly hazardous by OSHA.  
**SARA SECTION 302 (40 CFR 355, APPENDIX A):** Not listed  
**SECTION 311/312 HAZARD CATEGORIES (40 CFR 370):** Immediate (Acute) and Chronic Health Hazard  
**SECTION 313 REPORTABLE INGREDIENTS (40 CFR 372):** Not listed  
**CERCLA REPORTABLE QUANTITIES (RQ) (40 CFR 302.4):** Tripolyphosphate: 5000lbs (Sodium Phosphate, Tribasic)  
**TSCA INVENTORY STATUS (40 CFR 710):** Listed or are exempt from TSCA Inventory requirements under 40 CFR 720.30

**CALIFORNIA PROPOSITION 65:** Ethylene/Propylene Oxide Copolymer contained in this product contains a chemical(s) known to the state of California to cause cancer and birth defects or other reproductive harm.

**CANADA**

**WHMIS Hazard Classification/Division:** D2B, E  
**Domestic Substance List:** Listed or exempt from listing.  
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

**EINECS INVENTORY STATUS:** Listed or exempt from listing.

**HAZARD AND RISK PHRASE DESCRIPTIONS:**

**Hazard Symbols:** Xi (Irritant), C (Corrosive)

**Risk Phrases:** R34 - Causes burns. R36/37 - Irritating to eyes and respiratory system.

**Safety Phrases:** S2 -Keep out of the reach of children. S13 - Keep away from food, drink and animal feedingstuffs., S22-Do not breathe dust. 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/S39 - Wear suitable protective clothing, gloves and eye/face protection.

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**16. OTHER INFORMATION**

<b>NFPA Hazard Rating:</b>	<b>Health:</b> 2	<b>4=EXTREME</b>
	<b>Flammability:</b> 0	<b>3=HIGH</b>
	<b>Reactivity:</b> 1	<b>2=MODERATE</b>
		<b>1=SLIGHT</b>

**REVISION SUMMARY:** This MSDS replace Rev 2 issued in 10/24/08. The format has been updated for compliance with various regulatory bodies. Data changes/additions are noted in the following Sections: 1-4, 7, 8, 10, 11-16.

*The information herein is given in good faith and is compiled from Material Safety Data Sheets furnished by our suppliers. No warranty, express or implied, is made or intended. Any use of this information must be determined by the user to be in accordance with applicable Federal, State, and local laws and regulations.*