

# Material Safety Data Sheet

## Section 1 Product Identification

Product Name: **Heavy Duty Powdered Floor Cleaner**

Formula type: Alkaline detergent

### Manufacturer's Name:

Chem-Tech, Inc.

6551 Jansen Avenue NE – Suite 106

Albertville, MN 55301

Emergency: 800-535-5053 (Infotrac)

Information: 763-417-1380

Fax: 763-417-1389

## Section 2 Hazardous Ingredients

<u>Chemical Name</u>	<u>CAS#</u>	<u>%</u>	<u>Threshold Limit Value</u>	<u>Permissible Exposure Limit</u>
Sodium metasilicate	6834-92-0	40-60	2 mg/m <sup>3</sup> (dust)	2 mg/m <sup>3</sup> (dust)
Sodium carbonate	497-19-8	20-40	NE	NE
Trisodium Phosphate	7601-54-9	5-20	15 mg/m <sup>3</sup> (dust) 8 hr TWA	NE
Nonylphenol ethoxylate	9016-45-9	1-10	NE	NE

Balance of ingredients are not hazardous as defined by OSHA

## Section 3 Physical Data

Form: Powder

pH (1%): 11.4- 11.8

Color: Orange/yellow

Solubility in Water: Moderate

Odor: Pine

Vapor Density (Air = 1): NA

Specific Gravity = NA

% VOC: 0

Boiling Point °F: NA

Vapor pressure: NA

Evaporation Rate (n-Butyl acetate = 1): NA

## Section 4 Fire and Explosion Information

**Flash Point (Method) F:** not flammable

**Unusual Fire and Explosion Hazards:** When wet, contact with metal can form hydrogen gas that is flammable and can form explosive mixtures with air.

**Extinguishing Agents:** Use media appropriate for the primary source of the fire.

**Fire fighting methods:** Use methods appropriate for the primary source of the fire. Wear full protective clothing and NIOSH approved self-contained breathing apparatus.

## Section 5 Health Hazard Data – Signs and Symptoms of Overexposure:

Probable Routes of Entry: Eyes, skin, inhalation

**Eyes:** Direct contact will cause severe irritation and burns if not properly treated. Effects may range from mild to irreversible damage and blindness depending upon length of exposure, solution concentration and first aid measures.

**Skin:** This product contains materials that can cause severe skin irritation. Prolonged or repeated contact may result in burns and irreversible damage. Prolonged exposure to diluted product can cause irritation.

Inhalation: Overexposure by inhalation of dust may lead irritation in respiratory tract, producing a burning, choking sensation. Caution should be taken to prevent atomizing or misting of this product without proper respiratory protection.

Ingestion: Ingestion is not expected to be a primary route of exposure. Do not ingest. Material will cause severe burns in mouth, throat and stomach. Note: Aspiration is a secondary hazard and should be expected. Product will attack lining of esophagus and stomach.

Medical Conditions Aggravated by Exposure: Persons with pre-existing skin, eye or respiratory problems may be more susceptible to the effects of this product.

**Section 6 Emergency First Aid Procedures**

Eyes: Check for and remove contact lenses. Flush immediately with copious amounts of water for 15 minutes while holding eyelids apart to ensure complete irrigation of eye and eyelid tissues. Take exposed individual immediately to a health care professional, preferably an ophthalmologist, for emergency first aid and further evaluation.

Skin: Remove contaminated clothing. Immediately wash exposed area with copious amounts of water. Repeat washing. If redness or irritation occurs, seek immediate medical attention. Launder contaminated clothing before reuse.

Inhalation: If exposure by inhalation is suspected, immediately move exposed individual to fresh air. If individual experiences nausea, headache, dizziness, has difficulty breathing or is cyanotic, seek a health care professional immediately. Administer CPR if necessary.

Ingestion: Drink 1-2 large glasses of milk or water. Obtain immediate medical aid or call poison control. Do not induce vomiting unless directed by a physician. During vomiting there is a danger of aspirating liquid into lungs, causing serious damage and chemical pneumonitis. If spontaneous vomiting occurs, keep head below hips to prevent aspiration and monitor for breathing difficulty. Gastric lavage should be performed only by qualified medical personnel. Keep affected person warm and at rest. Seek immediate medical attention or call 911.

**Section 7 Reactivity Data**

Stability: Stable at room temperature (68F) when stored and used under proper conditions.

Incompatibility: Avoid contact with acids and oxidizing materials. When wet contact with metals can form flammable hydrogen gas.

Hazardous Decomposition Products: Smoke, carbon dioxide, carbon monoxide

Hazardous Polymerization: Will not occur.

**Section 8 Spill & Leak Procedures**

Procedures for Cleanup: Wear protective gear. Small spills: Sweep up and rinse with water.

Large Spills: Evacuate area. Eliminate ignition sources. Block potential routes to water systems (sewers, streams, etc.) with inert material such as sand or dirt. Salvage for reuse if possible. Place into disposal containers. Wash down affected areas with clear water. RCRA regulated. Call local Emergency Response agency to report spill.

Waste Disposal: Contact the proper county, state or federal authorities. RCRA regulated.

**Section 9 Special Protection Information**

Ventilation Type Required: Use adequate ventilation when working with material in an enclosed area. Mechanical methods such as fume hoods or area fans may be used to reduce localized dust areas. If dust is generated when the material handled, adequate ventilation in accordance with good engineering practice must be provided to maintain concentrations below the specified exposure.

- Eye Protection: Eye protection must be worn. Wear safety glasses with side shields or vented splash proof goggles.
- Protective Gloves: Impervious gloves such as neoprene or nitrile rubber to avoid skin sensitization and contact.
- Respiratory Protection: None required if airborne concentrations are maintained below threshold limits. Where dust may occur, wear an MSHA/NIOSH approved half mask form dust/mist air purifying respirator.
- Other Equipment: Eyewash stations and showers should be available in areas where this material is used and stored. Rubber apron and boots.

**Section 10 Special Precautions**

Store in ambient and dry area. Keep container tightly closed in order to avoid moisture absorption and product caking. Store out of direct sunlight. Keep out of reach of children. For industrial and institutional use only. Mix only with water – always add powder to the water phase – do not add water to the powder. Thoroughly rinse empty containers before disposal. Use only in well ventilated area. Do not breathe dust. Wash hands thoroughly after handling.

**Section 11 Toxicity Data**

<u>Ingredient</u>	<u>LD50 - Oral</u>	<u>LD50 – skin absorption</u>	<u>LC50 - Inhalation</u>	<u>Effects</u>
Sodium metasilicate	1153 mg/kg (rat)	ND	ND	Corrosive
Sodium Carbonate	4090 mg/kg (rat)	Non-irritant at 4 hr exposure (rabbit)	2300 mg/m <sup>3</sup> /2 hr (rat)	Severe eye irritant
Trisodium Phosphate	7400 mg/kg (rat)	>7940 mg/kg (rabbit)–moderate	ND	Eye - Corrosive
Nonylphenol ethoxylate	ND	ND	ND	ND

**Carcinogenicity:**

<u>Ingredient</u>	<u>NTP</u>	<u>IARC</u>	<u>OSHA</u>
Sodium metasilicate	No	No	No
Sodium Carbonate	No	No	No
Trisodium Phosphate	No	No	No
Nonylphenol ethoxylate	No	No	no

**Other effects:**

<u>Ingredient</u>	<u>Reproductive Toxicity</u>	<u>Teratogenicity</u>	<u>Mutagenicity</u>
Sodium metasilicate	No	No	No
Sodium Carbonate	No	No	No
Trisodium Phosphate	ND	ND	ND
Nonylphenol ethoxylate	ND	ND	ND

**Section 12 Ecological Information**

**Ingredient**

Sodium metasilicate	breaks down into mineralized materials
Sodium Carbonate	96 Hr LC50 Lepomis macrochirus: 300 mg/L [static]; 48 Hr EC50 Daphnia magna: 265 mg/L
Trisodium Phosphate	Breaks down into mineralized materials
Nonylphenol ethoxylate	Biodegradable

**Section 13 HMIS Hazard Rating**

0 = Minimal    1 = Slight    2= Moderate    3= Serious    4= Severe  
 Health: 2                      Reactivity: 1                      Fire: 0                      Special: personal protection: B (gloves & glasses)

**Section 14 Regulatory Information**

**• Chemical Inventory Status - part 1 •**

Ingredient	TSCA	EC	Japan	Australia
Sodium metasilicate	Yes	Yes	Yes	yes
Sodium Carbonate	Yes	yes	Yes	Yes
Trisodium Phosphate	Yes	Yes	Yes	Yes
Nonylphenol ethoxylate	Yes	Yes	Yes	Yes

**Heavy Duty Powdered Floor Cleaner**

page 4

**• Chemical Inventory Status – part 2 •**

Ingredient	Korea	-----Canada-----		Philippines
		DSL	NDSL	
Sodium metasilicate	Yes	Yes	No	Yes
Sodium Carbonate	Yes	Yes	No	Yes
Trisodium Phosphate	Yes	Yes	No	Yes
Nonylphenol ethoxylate	Yes	Yes	No	Yes

**• Federal, State & International Regulations – part 1 •**

Ingredient	---- SARA 302 ----		----- SARA 313 -----	
	RQ	TPQ	List	Chemical Catg.
Sodium metasilicate	No	No	No	No
Sodium Carbonate	No	No	No	No
Trisodium Phosphate	No	No	No	No
Nonylphenol ethoxylate	No	No	No	No

**• Federal, State & International Regulations – part 2 •**

Ingredient	CERCLA	RCRA 261.33	TSCA 8(d)
Sodium metasilicate	No	No	No
Sodium Carbonate	No	No	No
Trisodium Phosphate	5000	No	No
Nonylphenol ethoxylate	No	No	No

**Chemical Weapons Convention:** No                      **TSCA 12(b):** No                      **CDTA:** No

**SARA 311/312:**    **Acute:** Yes                      **Chronic:** No                      **Fire:** No                      **Pressure:** No  
**Reactivity:** No

**Section 15 Shipping Name:**

Corrosive solid, basic, inorganic, n.o.s., (disodium trioxosilicate), 8, UN3262, PGIII

**Section 16 WHMIS**

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

**Class**                      **Description**  
 E                      Corrosive material

**Symbol**



**Section 17**    **Documentary Information**

Date issued:	11-17-06	Supercedes:	1-12-05	Reason for update:	Total update
Prepared by:	S. VanGrasstek	Title:	Chem-Tech Lab Manager	Phone:	763-417-1380

**ABBREVIATIONS:** NE = NOT ESTABLISHED                      NDA = NO DATA AVAILABLE  
                          > = GREATER THAN                              <= LESS THAN  
                          BCF = BIOCONCENTRATION FACTOR            ND = NO DATA

The data and recommendations presented herein are based upon our research and the research of others, and are believed to be accurate. However, no warranty of guarantee of their accuracy is made; and the products are distributed without any warranty, expressed or implied, including the limited warranties of merchantability of fitness for a particular purpose. The supplier makes no warranties, expressed or implied to the vendee, the vendee's employees or anyone for any direct, special or consequential damages arising out of or in connection with the accuracy, adequacy or furnishing of such information. Employers should use this information only as a supplement to other information and must make independent determinations of suitability to assure proper use, safety, and health of employees.