

Material Safety Data Sheet

Section 1 Product Identification

Product Name: **Flex-O-Press Wash**

Formula type: Alkaline detergent

Manufacturer's Name:

Chem-Tech, Inc.

900 Mendelssohn Avenue N.

Golden Valley, MN 55427

Emergency: 800-535-5053

Information: 763-417-1380

Fax: 651-633-7051

Section 2 Hazardous Ingredients

<u>Chemical Name</u>	<u>CAS#</u>	<u>%</u>	<u>Threshold Limit Value</u>	<u>Permissible Exposure Limit</u>
Water	7732-18-5	84-90	NE	NE
Glycol ether EB	111-76-2	1-4	20 ppm skin	25 ppm skin
Sodium metasilicate	6834-92-0	1-3	2 mg/m ³ (dust)	2mg/m ³ (dust)
Nonylphenol ethoxylate	9016-45-9	1-2	NE	NE
Sodium dodecylbenzene sulfonate	25155-30-0	1-5	NE	NE
Sodium tripolyphosphate	7758-29-4	1-2	NE	NE

Balance of ingredients are not hazardous as defined by OSHA

Section 3 Physical Data

Form: Liquid

pH as is: 12.3 - 12.8

Color: Blue

Solubility in Water: Complete

Odor: Slight solvent

Vapor Density (Air = 1): >1

Specific Gravity = 1.05 - 1.06 at 60°F

% VOC: <4

Boiling Point °F: 200 °F (initial boiling point)

Vapor pressure: 0.88 mmHG @ 25°C

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

Section 4 Fire and Explosion Information

Flash Point (Method) °F: greater than 200 Cleveland Open Cup

Flammable limits in air approximate % by volume: Lower: 1.1 Upper: 10.6

Unusual Fire and Explosion Hazards: Contact with metal can form hydrogen gas that is flammable and can form explosive mixtures with air. High temperatures may create heavy flammable vapors that may settle along ground level and low spots to create an invisible fire hazard.

Extinguishing Agents: Foam, carbon dioxide, dry chemical, water fog, water

Fire fighting methods: General guidelines as this material won't burn without driving off water. Evacuate area and fight fire from a safe distance. If leak or spill has not ignited, ventilate area and use water spray to disperse gas or vapor and to protect personnel attempting to stop a leak. Use water spray to cool adjacent structures and to protect personnel. Shut off source of flow if possible. Stay away from storage tank ends. Withdraw immediately in case of rising sound from venting safety devices or any discoloration of storage tank due to fire. Fire fighters must wear MSHA/NIOSH approved positive pressure breathing apparatus with full face mask and full protective equipment.

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 dermatitis (dryness, chapping and reddening of skin). Prolonged exposure to diluted product can cause irritation.
- Inhalation:** Overexposure by inhalation of misted product 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: Pre-existing skin disorders.

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. Contact with metals can form flammable hydrogen gas.
- Hazardous Decomposition Products:** Smoke, carbon dioxide, carbon monoxide, oxides of nitrogen and sulfur, reactive hydrocarbons and irritating vapors.
- Hazardous Polymerization:** Will not occur.

Section 8 Spill & Leak Procedures

- Procedures for Cleanup:** Wear protective gear. Small spills: Mop thoroughly 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:	General or local
Protective Gloves:	Rubber, neoprene, and nitrile
Respiratory Protection:	Not necessary under normal use conditions and ventilation. If vapors are generated, wear NIOSH respirator for organic vapors.
Eye Protection:	Goggles or splash-proof glasses
Other Equipment:	Water source for eye and skin wash. Rubber boots to keep feet dry

Section 10 Special Precautions

Product should be stored between 40 and 95°F. Store out of direct sunlight. Keep out of reach of children. Keep container closed when not in use. For industrial and institutional use only. Mix only with water. Thoroughly rinse empty containers before disposal. Use only in well ventilated area. Do not breathe vapors. Wash hands thoroughly after handling.

Section 11 Toxicity Data**Toxicity:**

<u>Ingredient</u>	<u>LD50 - Oral</u>	<u>LD50 – skin absorption</u>	<u>LC50 - Inhalation</u>	<u>Effects</u>
Glycol ether EB	470 mg/kg (rat)	220 mg/kg (rabbit)	450 ppm/4 hr (rat)	ND
Sodium metasilicate	1153 mg/kg (rat)	ND	ND	Corrosive
Nonylphenol ethoxylate	ND	ND	ND	ND
Sodium dodecylbenzene sulfonate	1260 mg/kg (rat)	500 mg/24 hr (MOD)	ND	ND
Sodium tripolyphosphate	5400 mg/kg (rat)	> 7949 mg/kg (rabbit)	> 0.39 mg/L (rat, 4 hr)	Eye irritation: 3.3/110 (rabbit) – slight irritant

Carcinogenicity:

<u>Ingredient</u>	<u>NTP</u>	<u>IARC</u>	<u>OSHA</u>
Glycol ether EB	No	No	No
Sodium metasilicate	No	No	No
Nonylphenol ethoxylate	No	No	No
Sodium dodecylbenzene sulfonate	No	No	No
Sodium tripolyphosphate	No	No	No

Other effects:

<u>Ingredient</u>	<u>Reproductive Toxicity</u>	<u>Teratogenicity</u>	<u>Mutagenicity</u>
Glycol ether EB	See note below	Laboratory animals effected	ND
Sodium metasilicate	ND	ND	ND
Nonylphenol ethoxylate	ND	ND	ND
Sodium dodecylbenzene sulfonate	ND	ND	Ames test: non-mutagenic
Sodium tripolyphosphate	Rabbit – no birth defects	No genetic changes	No effects

Glycol ether EB – inhalation exposure to pregnant rabbits caused some toxicity to mother and fetus at 200 ppm, but no effects at 100 ppm. Rat studies indicate the rat kidneys may be the target organs for over exposure, but rat liver changes may also be evident. There is no evidence that this occurs in humans.

Section 12 Ecological Information**Ingredient**

Glycol ether EB	Moderately biodegradable / BCF <100 / when released into air, half life expected to be less than 1 day / LC50/96 hr values for fish are >100 mg/l / not expected to be toxic to aquatic life.
Sodium metasilicate	Breaks down to mineralized materials
Nonylphenol ethoxylate	Biodegradable
Sodium dodecylbenzene sulfonate	Readily biodegradable / Aquatic LC50 = 1.0-10 mg/L
Sodium tripolyphosphate	48 hr EC50 Daphnia magna: > 1000 mg/L; breaks down into mineralized materials

Section 13 HMIS Hazard Rating

0 = Minimal	1 = Slight	2 = Moderate	3 = Serious	4 = Severe
Health: 2	Reactivity: 0	Fire: 1	Special: personal protection: B	

Section 14 Regulatory Information**• Chemical Inventory Status - part 1 •****Ingredient**

	TSCA	EC	Japan	Australia
Glycol ether EB	Yes	Yes	Yes	Yes
Sodium metasilicate	Yes	Yes	Yes	Yes
Nonylphenol ethoxylate	Yes	Yes	Yes	Yes
Sodium dodecylbenzene sulfonate	Yes	Yes	Yes	Yes
Sodium tripolyphosphate	Yes	yes	yes	Yes

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

	Korea	-----Canada-----		Philippines
		DSL	NDSL	
Glycol ether EB	Yes	Yes	No	Yes
Sodium metasilicate	Yes	Yes	No	Yes
Nonylphenol ethoxylate	Yes	Yes	No	Yes
Sodium dodecylbenzene sulfonate	Yes	Yes	No	Yes
Sodium tripolyphosphate	Yes	Yes	No	Yes

• Federal, State & International Regulations – part 1 •

Ingredient	---- SARA 302 ----		----- SARA 313 -----	
	RQ	TPQ	List	Chemical Catg.
Glycol ether EB	No	No	Yes	Glycol ethers
Sodium metasilicate	No	No	No	no
Nonylphenol ethoxylate	No	No	No	No
Sodium dodecylbenzene sulfonate	No	No	No	No
Sodium tripolyphosphate	No	No	No	No

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

	CERCLA	RCRA 261.33	TSCA 8(d)
Glycol ether EB	No	No	Yes
Sodium metasilicate	No	No	No
Nonylphenol ethoxylate	No	No	No
Sodium dodecylbenzene sulfonate	1000	No	No
Sodium tripolyphosphate	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:

Cleaning Compound

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.

<u>Class</u>	<u>Description</u>	<u>Symbol</u>
D2B	Material causing other toxic effects	

Section 17 Documentary Information

Date issued: 10-23-06	Supersedes: 10-12-06	Reason for update: Total revision
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

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