

Material Safety Data Sheet

Section 1 Product Identification

Product Name: **VibraChem**
 Formula type: Alkaline liquid detergent

Manufacturer's Name:
 Chem-Tech, Inc.
 6551 Jansen Avenue NE – Suite 106
 Albertville, MN 55301

Emergency Telephone: 1-800-535-5053
 Information: 1-763-417-1380
 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>
Water	7732-18-5			
Cocamide DEA	68603-42-9	5-10	NE	NE
Sodium xylenesulphonate	1300-72-7	1-5	NE	NE

Balance of ingredients are not hazardous as defined by OSHA

Section 3 Physical Data

Form:	Liquid	pH as is:	9.0 - 9.5
Color:	Clear pale yellow	pH (1% vol):	8.0 – 9.0
Odor:	Slight	Solubility in Water:	Complete
Specific Gravity (Water = 1):	1.01 - 1.015	Vapor Density (Air = 1):	>1
Boiling Point °F:	212	% VOC:	<1
Evaporation Rate (Water = 1):	Similar to water	Vapor pressure:	similar to water

Section 4 Fire and Explosion Information

Flash Point (Method) F:	Not flammable
Autoignition temperature:	ND
Unusual Fire and Explosion Hazards:	Treat as an alkaline material
Extinguishing Agents:	Foam, carbon dioxide, dry chemical, water fog, water
Fire fighting methods:	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: Inhalation, eyes, skin

- Eyes: May cause irritation to the eyes.
- Skin: Prolonged or repeated skin contact may cause irritation/dermatitis.
- Inhalation: Inhalation of vapors or mists may be irritating to the respiratory system.
- Ingestion: May cause irritation to mouth, throat, or stomach. Nausea, vomiting and/or diarrhea.
- Medical Conditions Aggravated by Exposure: Pre-existing skin disorders or abrasions.

Section 6 Emergency First Aid Procedures

- Eyes: Immediately flush eyes with cool running water for at least 15 minutes. Remove contact lenses. If irritation develops, obtain medical aid.
- Skin: Wash skin with cool water and soap. Obtain medical aid if irritation develops. Remove contaminated clothing and launder.
- Inhalation: Remove to fresh air. Monitor breathing. Obtain immediate medical aid. Administer CPR if needed.
- 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 under normal ambient storage conditions
- Incompatibility: Strong oxidizing agents and acids; nitrosating agents
- Hazardous Decomposition Products: Carbon dioxide, carbon monoxide, oxides of nitrogen and ammonia. Nitrosating agents with this product may produce nitrosamines.
- Hazardous Polymerization: Will not occur

Section 8 Spill & Leak Procedures

- Procedures for Cleanup: Wear safety equipment. For small spills, mop up and rinse with water.
- Large Spills: Area will be slippery. Eliminate flames and ignition sources. Dike product with sand or dirt. Keep out of surface waters. Salvage for reuse if possible. Otherwise place into suitable container for disposal. Inform local pollution officials of spill. Spill may be considered RCRA hazardous if contaminated. Call local regulatory agency.
- Waste Disposal: Dispose in accordance with federal, state and local regulations. Waste may be subject to RCRA regulation if contaminated.

Section 9 Special Protection Information

- Ventilation Type Required: General or mechanical
- Protective Gloves: Rubber, neoprene, and nitrile
- Respiratory Protection: Not necessary under normal use conditions and ventilation. If mists are generated, wear NIOSH respirator for ammoniacal vapors
- Eye Protection: Goggles or splash-proof glasses
- Other Equipment: Eye wash station. Rubber boots for spill cleanup.

Section 10 Special Precautions

Store between 32° F and 110° F. Store away from heat or ignition sources. 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.

Section 11 Toxicity Data**Toxicity:**

<u>Ingredient</u>	<u>LD50 – Oral rat</u>	<u>LD50 – skin absorption rabbit</u>	<u>LC50 - Inhalation</u>	<u>Effects</u>
Cocamide DEA	12400 µL/kg	Moderate irritation	ND	Minimal eye irritation
Sodium xylenesulphonate	> 5g/kg	> 0.8g/kg	> 6.41 mg/l rabbit	Mild eye irritant

Carcinogenicity:

<u>Ingredient</u>	<u>NTP</u>	<u>IARC</u>	<u>OSHA</u>
Cocamide DEA	NA	NA	NA
Sodium xylenesulphonate	No	No	No

Other effects:

<u>Ingredient</u>	<u>Reproductive Toxicity</u>	<u>Teratogenicity</u>	<u>Mutagenicity</u>
Cocamide DEA	ND	ND	ND
Sodium xylenesulphonate	ND	ND	No

Section 12 Ecological Information**Ingredient**

Cocamide DEA	Readily biodegradable
Sodium xylenesulphonate	Biodegradation: 87% in 28 days Daphnia magna (static)48 hr: EC50(Effective Concentration) is estimated to be greater than 1000 mg/l Rainbow trout(static)96 hr: LD50 (Lethal Concentration) is estimated to be greater than 1000 mg/l

Section 13 Hazard Rating - HMIS

0 = minimal 1 = slight 2 = moderate 3 = serious 4 = severe

Health: 1 Reactivity: 0 Fire: 0 Personal protection equipment: B (gloves and glasses)

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

<u>Ingredient</u>	<u>TSCA</u>	<u>EC</u>	<u>Japan</u>	<u>Australia</u>
Cocamide DEA	Yes	Yes	Yes	Yes
Sodium xylenesulphonate	Yes	Yes	Yes	Yes

• Chemical Inventory Status – part 2 •

<u>Ingredient</u>	<u>Korea</u>	<u>-----Canada-----</u>	<u>Philippines</u>
		<u>DSL</u>	<u>NDSL</u>
Cocamide DEA	Yes	Yes	No
Sodium xylenesulphonate	Yes	Yes	No

