

Material Safety Data Sheet

Section 1 Product Identification

Product Name: **Tough Stuff (Concrete Remover)**
 Formula type: Acid cleaner

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	80-60		
Proprietary blend	Proprietary	20-40	NE	NE

Balance of ingredients are not hazardous as defined by OSHA

Section 3 Physical Data

Form:	Liquid	pH as is:	0.5 - 1.5
Color:	Clear / slight yellow	pH (1% vol):	
Odor:	Neutral	Solubility in Water:	Complete
Specific Gravity (Water = 1):	1.120 - 1.150 at 60°F	Vapor Density (Air = 1):	ND
Boiling Point °F:	NE	% VOC:	<0.1
Evaporation Rate (Water = 1):	Similar to water	Vapor pressure:	ND

Section 4 Fire and Explosion Information

Flash Point (Method) F: Not flammable

Unusual Fire and Explosion Hazards: None known. Containers may melt or rupture from the heat of a fire. Pressure may build up in closed containers when heated. Keep containers cool with water spray. Material and container can burn in a fire.

Extinguishing Agents: Foam, carbon dioxide, dry chemical, water fog, water . Use media appropriate for the cause of the fire and the surroundings.

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: Eyes or skin

- Eyes:** Direct contact can causes severe irritation or injury. 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, defatting, and dermatitis. Irritation effects depend upon contact duration and can last for hours or days.
- Inhalation:** Overexposure by inhalation of misted product may lead to minor respiratory irritation that can last for hours or days.
- Ingestion:** Ingestion is not expected to be a primary route of exposure. Do not ingest. Harmful if swallowed. Irritating to mouth, throat, and stomach.

Medical Conditions Aggravated by Exposure: Pre-existing skin diseases may be aggravated.

Section 6 Emergency First Aid Procedures

- Eyes:** Check for and remove contact lenses. Flush immediately with copious amounts of water for 20 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. Seek immediate medical attention if irritation develops. Wash 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. If unconscious, do not give anything to drink.

Section 7 Reactivity Data

- Stability:** Stable at room temperature (68F) when stored and used under proper conditions.
- Incompatibility:** Avoid contact with other acids, bases and oxidizing materials. Mixing with base/caustic materials will generate heat and neutralize acids.
- Hazardous Decomposition Products:** Chlorine gas can be liberated on contact with oxidizers.
- 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:** Wear protective gear. Block potential routes to water systems (sewers, streams, etc.). If possible, dilute acid concentration. Contain spill with inert absorbent and transfer to disposal containers. Wash down affected areas with a mildly alkaline detergent and rinse with clear water. Call local Emergency Response agency to report spill.
- Waste Disposal:** Contact the proper county, state or federal authorities to determine if RCRA regulated.

Section 9 Special Protection Information

Ventilation Type Required:	Local exhaust or other engineering controls to minimize exposures.
Protective Gloves:	Impervious gloves such as neoprene or nitrile rubber to avoid skin sensitization and absorption.
Respiratory Protection:	None required if airborne concentrations are maintained below threshold limits. Where misting and vapors may occur, wear an MSHA/NIOSH approved half mask form dust/mist air purifying respirator or respirator for organic vapors.
Eye Protection:	Eye protection must be worn. Wear safety glasses with sideshields and/or face shield or vented/splash proof goggles.
Other Equipment:	Eyewash stations and showers should be available in areas where this material is used and stored.

Section 10 Special Precautions

Store out of direct sunlight and away from heat sources. Store between 40F and 90F. 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>
Proprietary blend	ND	ND	ND	Skin irritant

Carcinogenicity:

<u>Ingredient</u>	<u>NTP</u>	<u>IARC</u>	<u>OSHA</u>
Proprietary blend	NE	NE	NE

Other effects:

<u>Ingredient</u>	<u>Reproductive Toxicity</u>	<u>Teratogenicity</u>	<u>Mutagenicity</u>
Proprietary blend	ND	ND	ND

Section 12 Ecological Information**Ingredient**

Proprietary blend The products of degradation are not toxic.

Section 13 Hazard Rating - HMIS

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

Health: 2 Reactivity: 0 Fire: 0 Personal protection equipment:: B (gloves & 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>
Proprietary blend	Yes	Yes	ND	ND

• Chemical Inventory Status – part 2 •

<u>Ingredient</u>	<u>Korea</u>	-----Canada----- <u>DSL</u>	<u>NDSL</u>	<u>Philippines</u>
Proprietary blend	ND	Yes	No	ND

