



CRETE CLEAN

Crete Clean Concentrate is used in the cement industry to remove portland cement, lime or concrete from cement trucks, machinery and other equipment. **Crete Clean** is an acid cleaner fortified with surfactants for deep cleaning action.

FEATURES & BENEFITS

- **POWERFUL CLEANING ACTION**
Fortified with surfactants and builders for deep cleaning action
- **ECONOMICAL**
Saves time and money
- **FAST ACTING**
Quickly dissolves concrete and soil



DIRECTIONS

Vehicle and Equipment Exteriors

Dilute **Crete Clean** Concentrate with 1-5 parts of water. Brush or spray on surface of vehicle and let stand for 5 to 10 minutes. Rinse thoroughly with water or a neutralizer solution. Heavy soil loads may require repeated applications or a stronger dilution rate.

Interior of Mixers

Dilute **Crete Clean** Concentrate with 10 parts of water. Spray diluted **Crete Clean** into the mixing chamber. Run the mixer long enough so that the interior of the mixer is clean. Enough **Crete Clean** solution should be used to allow for contact with the dirty surfaces during the mixing process. Rinse thoroughly with water.

Please note that the dilution rate is a recommendation only. As you become more familiar with the products performance you may adjust accordingly. Dilution levels will vary with soil level.

NOTE: See reverse side for MSDS information and General Cautions for Use

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MATERIAL SAFETY DATA SHEET

(COMPLIES WITH 29CFR 1910.1200)

SECTION I - CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Identity (As Used on Label and List): Crete Clean Concentrate (CRE100)
Product Class: Water-based acid etcher
Emergency Telephone Number: 800-535-5053
Telephone Number for Information: 763-509-7937
Manufacturer's Name and Address:
Ver-tech Labs
6801 Bleck Drive
Rockford, MN 55373

SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components (Specific Chemical Identity):

Chemical	Common Name(s)
A	2-Butoxy ethanol CAS #111-76-2
B	Hydrochloric acid CAS #7647-01-0
C	Nonylphenol ethoxylates CAS #9016-45-9
D	Water CAS #7732-18-5

SECTION III - HAZARDS IDENTIFICATION

Emergency Overview

Appearance and Odor: Amder liquid, acid aroma.

Primary Hazards: Corrosive

Potential Health Hazards

Route(s) of Entry: Skin Absorption: X Ingestion: X Inhalation: X

Eye: Cause's chemical burns on contact.

Skin: Cause's chemical burns on contact.

Ingestion: Harmful if swallowed.

Inhalation: Overexposure to hydrochloric acid / butyl vapors may be harmful.

Signs and Symptoms of Exposure: Eye Contact: Burning, tearing, redness and corneal damage. Skin Contact: Possible slippery feeling, redness, swelling and burns. Symptoms may be delayed. **Inhalation:** Overexposure to 2-Butoxy ethanol (butyl) vapors may cause central nervous system effects including drowsiness, headache, nausea and dizziness.

Carcinogenicity: NTP? No IARC Monographs? No

OSHA Regulated? No

Target Organ (s): Eyes, skin, liver, kidneys, lymphoid system, respiratory system and blood.

Medical Conditions Generally Aggravated by Exposure: N. Av.

Health Hazards, Chronic: Overexposure to Hydrochloric acid / 2-Butoxy ethanol may cause damage to one or more of the target organs listed above.

SECTION IV - FIRST AID MEASURES

Emergency and First Aid Procedures:

For Eye Contact: Immediately flush eyes with sanitary eye wash solution or running water for at least 15 minutes. Obtain medical attention. Continue to flush eyes until medical attention arrives. **If Swallowed:** Do not induce vomiting. Drink two glasses of water, and immediately call a physician. **For Skin Contact:** Flush thoroughly with cool water. Remove and wash contaminated clothing before reuse. Never give anything by mouth to an unconscious person. **For Overexposure to Vapors:** Remove victim to fresh air, keep warm, quiet and contact a physician.

Sources Used: Raw material data, general toxicology from the trade for similar products.

SECTION V - FIRE FIGHTING MEASURES

Flammability: No **Autoignition Temperature:** N. Ap.

Flash Point (method used): None

Flammable Limits: N. Ap. LEL UEL

Extinguishing Media: N. Ap.

Water?	Foam?	Water Fog?
Alcohol Foam?	CO ₂ ?	Dry Chemical?
Vaporizing Liquid?	Other?	

Special Fire Fighting Procedures: N. Ap.

Unusual Fire and Explosion Hazards: Product attacks most metal creating hydrogen gas.

TDG Flammability Classification: Non-flammable

Sensitivity to Mechanical Impact: None

Sensitivity to Static Discharge: None

SECTION VI - ACCIDENTAL RELEASE MEASURES

Steps to be taken in Case Material is Released or Spilled:

Dike and contain spill with inert material (sand, earth, etc). Collect spill with mop, absorbent material (example: floor-dri) or vacuum. Thoroughly rinse affected area with water.

SECTION VII - HANDLING AND STORAGE

Precautions to be taken in Handling and Storing:

Normal care in handling and storage.

Other Precautions: Keep out of reach of children. Keep from freezing.

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection (Specify Types): Not required where ventilation is sufficient to maintain 2-Butoxy ethanol vapor level below listed TLV. Use NIOSH/MSHA approved organic vapor respirator in areas where vapor level exceeds TLV.

Ventilation: Local Exhaust: Not required **Special:** Not required

Mechanical (General): As required to keep vapor levels below TLV & PEL, listed in Section XI. **Other:** Not required

Protective Gloves: Natural rubber or synthetic.

Eye Protection: Approved safety goggles or shield. **Footwear:** Rubber footwear.

Other Protective Clothing or Equipment: Not required

Work/Hygienic Practices: Do not contaminate food or beverages with cleaning chemicals.

SECTION IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: Approximately 212°F **pH:** < 2

Specific Gravity (H₂O) = 1: 1.035

Vapor Density (Air = 1): > 1

Odor Threshold: N. Av.

Evaporation Rate (Butyl Acetate = 1): N. Av.

Oil/Water Distribution

Solubility in Water: Complete

Coefficient: N. Av.

Vapor Pressure (MM HG): N. Av.

Melting Point: N. Ap.

SECTION X - STABILITY AND REACTIVITY

Stability: Unstable: Stable: X

Conditions to Avoid: N. Ap.

Incompatibility (materials to avoid): N. Av.

Hazardous Decomposition or By-products: N. Av.

Hazardous Polymerization: May occur: Will not occur: X

Conditions to Avoid: N. Ap.

SECTION XI - TOXICOLOGICAL INFORMATION

Chemical	OSHA PEL	ACGIH TLV	Recom.	LD50	LC50
A	25 ppm (skin)	25 ppm (skin)	25 ppm (skin)	1.48 g/kg (rat, oral)	N. Av.
B	5 ppm	5 ppm	N. Av.	900 mg/kg (Rabbit)	3124 ppm (rat 1hr)
C	None	None	N. Av.	2100 mg/k (rat, oral)	7,200 mg/L (rat, 1 hr.)
D	None	None	N. Av.	N. Av.	N. Av.

Teratogen, Mutagen, Reproductive Toxin Status: No data with known relevance to humans.

Toxicologically Synergistic Products: N. Av.

SECTION XII - ECOLOGICAL INFORMATION

Ecotoxicological Information: N. Av.

Chemical Fate Information: N. Av.

SECTION XIII - DISPOSAL CONSIDERATIONS

Waste Disposal Method:

Dispose of spilled material in accordance with local, state and federal regulations. Waste from normal cleaning procedures may be sewer, depending on the materials and/or contaminants being cleaned as well as state, federal and local sewer commission regulations.

RCRA Hazard Class: D002, characteristic corrosive.

SECTION XIV - TRANSPORT INFORMATION

Shipping Classification: Corrosive liquid, acidic, inorganic, N.O.S. (hydrochloric acid), class 8

UN Number: 3264

Packing Group: II

SECTION XV - PREPARATION DATA

Prepared By: Safety and Health Department

Telephone Number: 763-509-7937

Date: 10-11-2007

SECTION XVI - REGULATORY INFORMATION

US Federal Regulations

TSCA Status: All ingredients listed.

CERCLA Reportable Quality: 5,000 lbs. (Hydrochloric Acid)

SARA Title III

Section 302 Extremely Hazardous Chemicals: None

Section 311/312 Hazard Category: Immediate health, chronic health

Section 313 Toxic Chemicals: Glycol ether, Hydrochloric Acid

SECTION XVII - OTHER INFORMATION

None

N. Ap. - Not Applicable; N.Av. - Not Available

NFPA SYSTEM

3 A. Health Hazard 0 A. Fire Hazard 0 A. Reactivity Hazard

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