

MATERIAL SAFETY DATA SHEET

PREPARED: 11/3/2008

Section 1 - Chemical Product and Company Identification

Product Name: Crystal Deck Cleaner (TC 2000 & 2001)
 Product Description: Detergent Mixture

TIP TOP PRODUCTS
145 BAILS RD.
RIPLEY, MS 38663
(662) 993-9530

Section 2 - Composition/Information on Ingredients

Principle Components	CAS #	OSHA PEL	ACGIH TLV
2-Butoxyethanol	111-76-2	25 ppm	25 ppm
Nonylphenoxypolyoxyethanol	9016-45-9	none	none
Sodium Dodecylbenzene Sulfonate	25155-30-0	not applicable	not applicable
Sodium Metasilicate	6834-92-0	not applicable	not applicable
Sodium Tripolyphosphate	7758-29-4	5 mg/m ³ as a respirable dust	5 mg/m ³ as a respirable dust
Trisodium Phosphate	7601-54-9	none	none

Section 3 - Hazards Identification

Emergency Overview

White crystalline solid, mildly astringent odor.
 Causes severe eye, skin, and mucous membrane irritation.
 Spills are very slippery when mixed with water, may cause falls.

Potential Health Effects

Primary Entry Routes: Skin and eye contact.

Target Organs: Eyes, skin.

Acute Effects

Inhalation: Not considered a route of exposure.

Eyes: Irritation, redness, tearing, blurred vision, corrosive burns.

Skin: Severe irritation.

Ingestion: Nausea, vomiting, diarrhea, headache, dizziness, blood damage, kidney and liver damage.

Chronic Effects

Inhalation: Not considered a route of exposure.

Eyes: Repeated or prolonged contact may cause conjunctivitis (inflammation of the mucous membranes that line the inner surface of the eyelids and over the forepart of the eyeball).

Skin: Repeated or prolonged contact may cause defatting dermatitis, redness, itching, inflammation, cracking, and possible secondary infection.

(2-Butoxyethanol is readily absorbed through the skin in toxic amounts and may cause headache, dizziness, nausea, vomiting, diarrhea, red blood cell hemolysis, kidney and liver damage.)

Section 4 - First Aid Measures

Inhalation: Remove from exposure, if breathing is difficult or absent, give artificial respiration and obtain immediate medical attention. Call a physician.

Eye Contact: Flush eyes immediately with plenty of water for at least 15 minutes. Call a physician.

Skin Contact: Wipe off excess, wash affected area with plenty of water. If irritation persists, obtain medical attention.

Ingestion: Call a physician or poison control center. Unless the physician or poison control center advises otherwise, have a *conscious and alert* person drink 1 - 2 glasses of water. Do not induce vomiting. Never give anything to an unconscious person. If spontaneous vomiting occurs, monitor for breathing difficulty.

Section 5 - Fire-Fighting Measures

Flash Point: None

Flammability Limits (percent by volume)

Lower: Not known.

Upper: Not known.

Flammability Classification: None

Extinguishing Media: Use foam, dry chemical, carbon dioxide, or water spray.

Unusual Fire or Explosion Hazards: Containers may explode in heat of fire.

Hazardous Combustion Products: Oxides of carbon, phosphorous, and sulfur; smoke and fumes.

Fire-Fighting Instructions: Water spray may be used to cool containers. Do not release runoff from fire control methods to sewers or waterways; environmental damage may result.

Fire-Fighting Equipment: Breathing apparatus and protective clothing should be used in fighting fires involving chemicals.

Section 6 - Accidental Release Measures

Personal Precautions: Ventilate area. Cleanup personnel should protect against inhalation of dust and skin/eye contact.

This material forms slippery surfaces on floors, posing a risk of falling.

Spill Response Procedures: Contain spill, using a dike of inert material and absorbents if necessary, to prevent release into the environment.

Small Spills: Shovel into waste container. Flush area with water.

Large Spills: Recover for reprocessing or disposal. Wash spill area with water. Dispose of wash water in accordance with Local, State, and Federal regulations.

Waste Disposal: Dispose in accordance with Local, State, and Federal regulations.

Section 7 - Handling and Storage

Handling Precautions: Use in a well ventilated area. Avoid contact with skin and eyes.

Storage Requirements: Store in a cool, dry place. Keep away from excessive heat. Keep from freezing. Keep containers tightly closed when not in use. Do not store with oxidizers, acids, or other corrosive materials.

Section 8 - Exposure Controls/Personal Protection

Ventilation: Good general ventilation is recommended.

Personal Protective Equipment

Respiratory: None required with normal use. If respiratory protection is required, a NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be used.

Eye/Face: Wear safety glasses with side shields (or goggles) and a face shield.

Skin/Body: For brief contact, wear body-covering clothing. Use rubber or other chemically-resistant gloves.

Remove clothing which has been contaminated; wash before reuse. Wash separately from other clothing. Keep other protective equipment clean.

Other Precautions: Do not eat, drink, or smoke in work area. Wash hands and face before eating, drinking, or smoking.

Occupational Exposure Limits: None established.

Section 9 - Physical and Chemical Properties

Physical State: Solid

Appearance: White crystals

Odor: Mild

Specific Gravity: (Water = 1) ~1.0

Vapor Density: Not applicable

Evaporation Rate: Negligible

Water Solubility: 100%

Boiling Range: > 100°C (212°F)

Vapor Pressure: Negligible
% Volatile: Not applicable

Melting Point: Not Applicable

Section 10 - Stability and Reactivity

Stability: Stable under normal conditions of use.

Chemical Incompatibilities: Reacts with oxidizers, reducing agents, and acids.

Conditions to Avoid: Contact with oxidizers, reducing agents, acids, and excessive heat.

Hazardous Decomposition Products: Oxides of carbon, oxides of phosphorous, oxides of sulfur.

Hazardous Polymerization: Does not occur.

Section 11 - Toxicological Information

There is no toxicological data available on this product.

Section 12 - Ecological Information

There is no ecological information available on this product.

Section 13 - Disposal Considerations

Consult Local, State and Federal regulations for current information regarding proper disposal.

Section 14 - Transportation Information

Department of Transportation (DOT): Not regulated

International Air Transport Association (IATA): Not regulated

International Maritime Organization (IMO): Not regulated

Section 15 - Regulatory Information

Section 16 - Other Information

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