

MATERIAL SAFETY DATA SHEET

PREPARED: 11/3/2008

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

Section 1 - Identification

Product Name: Deck Brightener (TB 3001)
Product Description: Aqueous Mixture, Acidic

Section 2 - Composition/Information on Ingredients

Principle Components	CAS #	OSHA PEL	ACGIH TLV
Phosphoric Acid	7664-38-2	1 mg/m ³	1 mg/m ³
Water	7732-18-5	none	none

Section 3 - Physical Data

Physical State: Liquid	Vapor Density: Same as water
Appearance: Clear, pale blue	Evaporation Rate: Slower than water
Odor: Mild	Water Solubility: 100%
Specific Gravity: (Water = 1) 1.20	Boiling Range: > 100°C (212°F)
Vapor Pressure: Less than water	Melting Point: Not Applicable
% Volatile: Negligible	pH: < 1

Section 4 - Fire & Explosion Data

Flash Point: None
Flammability Limits (percent by volume)
Lower: Not known.
Upper: Not known.
Flammability Classification: None
Extinguishing Media: Product is an aqueous solution; nonflammable in liquid form. Use foam, dry chemical, carbon dioxide, or water spray on dried residue.
Unusual Fire or Explosion Hazards: May generate hydrogen gas in contact with some metals.
Hazardous Combustion Products: Oxides of carbon and phosphorous; 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.
Fire-Fighting Equipment: Product contains phosphoric acid, a corrosive liquid. Avoid all contact; do not inhale vapors. Breathing apparatus and protective clothing should be used in fighting fires involving chemicals.

Section 5 - Health Hazard Data

Emergency Overview

Clear, pale blue aqueous solution, mild odor.
Acidic, corrosive liquid. May produce corrosive burns on contact with skin, eyes or ingestion.
Spills will react with alkali, metals; may etch concrete.

Potential Health Effects

Primary Entry Routes: Skin and eye contact; inhalation.

Target Organs: Eyes, skin.

Acute Effects

Inhalation: Irritation to respiratory tract and mucous membranes, coughing.

Eyes: Severe irritation, redness, tearing, blurred vision, corrosive burns.

Skin: Severe irritation, corrosive burns.

Ingestion: Corrosive burns to mouth, throat and stomach; pain and vomiting.

Chronic Effects

Inhalation: Repeated or prolonged exposure to acid gas or mist may cause erosion of teeth, bronchial irritation with chronic cough and frequent attacks of bronchial pneumonia. Gastrointestinal disturbances may also occur.

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.

First Aid

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: Remove contaminated clothing and shoes. 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 or milk. Never give anything to an unconscious person. Do not induce vomiting. If spontaneous vomiting occurs, monitor for breathing difficulty.

Section 6 - Reactivity Data

Stability: Stable under normal conditions of use.

Chemical Incompatibilities: Corrodes many common metals and alloys including mild steel and aluminum. Avoid cyanides and alkaline materials.

Conditions to Avoid: Contact with alkaline materials and reactive metals.

Hazardous Decomposition Products: Oxides of phosphorous, hydrogen gas from contact with metals.

Hazardous Polymerization: Does not occur.

Section 7 - Spill and Leak Procedures

Personal Precautions: Ventilate area. Cleanup personnel should protect against skin/eye contact.

Spill Response Procedures: Contain spill, using a dike of inert material and absorbents if necessary. Neutralize spill with soda ash.

Small Spills: Neutralize spill with soda ash. Scoop mixture into a suitable container for disposal and flush area with water.

Large Spills: Use an inert absorbent dike and contain the liquid. Neutralize the spill with soda ash. Scoop or shovel absorbent and product into suitable containers for 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 8 - Exposure Controls/Personal Protection

Ventilation: Good general ventilation is recommended. Local exhaust may be required if material is sprayed or heated to maintain TLV.

Personal Protective Equipment

Respiratory: None required with normal use. If respiratory protection is required, seek professional advice before selection and use. Follow OSHA respirator regulations (CFR 1910.134) and, if necessary, wear a NIOSH/MSHA approved respirator.

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 - Handling and Storage

Handling Precautions: Use in a well ventilated area. Corrosive. Avoid contact with skin, eyes and clothing. Avoid breathing sprays or mists. Follow label instructions.

Storage Requirements: Store in a cool, dry place with closures up. Keep away from excessive heat. Keep from freezing. Keep containers tightly closed when not in use. Treat empty containers as hazardous due to product residues.

Prepared by: Cindy C. Pruitt Date: 11/3/08
Cindy C. Pruitt

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