

MATERIAL SAFETY DATA SHEET

TITAN INDUSTRIAL CHEMICALS, LLC GROVER, MO. 63040

EMERGENCY PHONE: 1-877-273-9030

EFFECTIVE DATE: 5-23-08

PRODUCT NAME: "PROTECT ALL"

MSDS: 43510125

HAZARDOUS INGREDIENTS (TYPICAL VALUES -- NOT SPECIFICATION)

HYDROXYACETIC ACID CAS# 79-14-1; TWA AND TLV NOT ESTABLISHED

2-BUTOXYETHANOL; CAS NO 111-76-2 ACGIH TWA 25PPM; OSHA TWA 25PPM

ALL OTHER INGREDIENTS ARE PROPRIETARY INFORMATION AND WILL BE DIVULGED IN THE EVENT OF AN EMERGENCY.

Section 1

Boiling Point: 220 F.

Vap. Press. (MmHg @ 25oC): NA

Vap. Density (Air = 1): NA

pH: 2.0-3.0

Appearance and Odor: CLEAR LIQUID WITH LOW VISCOSITY. PLEASANT, LOW ODOR.

Physical Data

Sol. In Water: COMPLETE

Sp. Gravity (@25/25oC): 1.17

EVAP.RATE (BUTYL ACETATE=1): N/A

% Volatile by Volume:80.73% incldg. H2O

Section 2

Flash Point:NONE

Method Used:TCC

Extinguishing Media:WATER FOG.

Special Fire Fighting Equipment and Hazards:NONE

Fire and Explosion Hazard Data

Flammable Limits:

LEL (% Vol):NA UEL (% Vol):NA

Section 3

Stability:STABLE

Incompatibility:REACTIVE METALS AND BASIC MATERIALS (LIME, SODA ASH, CAUSTIC SODA, ETC.)

Hazardous Decomposition Products:AT FLAME TEMPERATURES, WILL EMIT TOXIC FUMES.

Hazardous Polymerization:WILL NOT OCCUR.

Reactivity Data

Section 4

Spill, Leakage, and Disposal Procedures

Action to be taken for Spills (Use Appropriate Safety Equipment):CONTAIN SPILL. NEUTRALIZE CAUTIOUSLY WITH A BASE SUCH AS SODA ASH. DISCARD PER RCRA REGULATIONS.

Disposal Method:BECAUSE OF ITS CORROSIVE AND LOW pH CHARACTERISTICS, UNNEUTRALIZED PRODUCT, WHEN DISCARDED, MAY BE A RCRA HAZARDOUS WASTE

Section 5

Health Hazard Data -- Effect of Overexposure

Ingestion:CAN CAUSE SEVERE IRRITATION AND BURNS TO MUCOUS MEMBRANES.

Eye Contact:ACID BURNS.

Skin Contact:CAN CAUSE MODERATE BURNS DEPENDING ON AMOUNT OF EXPOSURE

Skin Absorption:WILL NOT OCCUR UNLESS SKIN IS BROKEN.

Inhalation:MIST CAN CAUSE DAMAGE TO NASAL AND RESPIRATORY PASSAGES.

Section 6

First Aid

Eyes:FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES, LIFTING UPPER AND LOWER LIDS. CALL A PHYSICIAN. DO NOT USE CHEMICAL ANTIDOTE.

Skin:FLUSH AREA WITH WATER FOR AT LEAST 15 MINUTES. IF IRRITATION PERSISTS CALL A PHYSICIAN. REMOVE CONTAMINATED CLOTHING AND LAUNDER BEFORE RE-USE.

Inhalation:REMOVE PERSON TO FRESH AIR. IF BREATHING IS DIFFICULT ADMINISTER OXYGEN. GET MEDICAL ATTENTION.

Ingestion:DO NOT INDUCE VOMITING, WHICH WILL CAUSE FURTHER DAMAGE TO THROAT. RINSE MOUTH WITH WATER. DRINK COPIOUS AMOUNTS OF WATER TO CAUSE DILUTION IN STOMACH. IF VOMITING OCCURS SPONTANEOUSLY KEEP HEAD BELOW HIPS TO PREVENT

ASPIRATION OF MATERIALS INTO LUNGS. GET MEDICAL ATTENTION.

SUPPLEMENTAL HEALTH INFORMATION (ACUTE TOXICITY DATA)

EYES: OPHTHALMOLOGICAL CONSULTATION SHOULD BE OBTAINED FOR ANY CORNEAL BURNS.

SKIN: N/D

RESPIRATORY: N/D

ORAL:ATTEMPT TO NEUTRALIZE WITH A BASE SHOULD BE AVOIDED BECAUSE OF EXCESSIVE GAS AND HEAT FORMATION, WHICH MAY INCREASE THE THREAT OF ESOPHAGOGASTRIC PERFORATION.

CARINOGENICITY: NTP? NO IARC? NO OSHA REGULATED?:YES- 2-BUTOXYETHANOL

SECTION 7

SPECIAL HANDLING INFORMATION

VENTILATION: NOMAL ROOM VENTILATION IS ADEQUATE UNLESS MATERIAL IS SPRAYED OR ATOMIZED. THEN MECHANICAL VENTILATION MAY BE NECESSARY.

Respiratory Protection:NONE UNLESS SPRAYED OR ATOMIZED. THEN EXHAUST VENTILATION IS REQUIRED.

Protective Clothing:RUBBER OR NEOPRENE GLOVES AND FACE SHIELD DEPENDING ON AMOUNT OF EXPOSURE

Eye Protection:CHEMICAL SAFETY GOGGLES.

SECTION 8

SPECIAL PRECAUTIONS & ADDITIONAL INFORMATION

Precautions to be Taken in Handling and Storage:TREAT EMPTY CONTAINERS AS IF THEY WERE FULL DUE TO PRESENCE OF PRODUCT RESIDUE.

ADDITIONAL INFORMATION: HMIS...2.0.0.D

SECTION 9

D.O.T. SHIPPING INFORMATION

PROPER SHIPPING NAME: LIQUID CLEANING COMPOUND

HAZARD CLASS: N/A

LABEL REQUIREMENTS: NONE

ID NO.: N/A

EMERGENCY RESPONSE GUIDE NO.: N/A

SECTION 10

ENVIRONMENTAL INFORMATION

RCRA WASTE NO.: NONE

REPORTABLE QUANTITY (CERCLA): NONE NFPA: 2,0,1

THRESHOLD PLANNING QUANTITY: N/A SARA TITLE III, SEC. 313: ; 2-BUTOXYETHANOL

CONSULT TITAN INDUSTRIAL CHEMICALS, LLC FOR FURTHER INFORMATION.

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