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Emergency Phone Number: (800) 231-0454

**DATE PREPARED:** 8/3/2012  
**REVISION DATE:** 02/20/2013  
**CHEM-TEL:** 800-225-3924  
**PRODUCT NUMBER:** 2230

**SECTION I - IDENTIFICATION**

**PRODUCT NAME:** Top  
**PRODUCT CODE:** 2230  
**PRODUCT USE:** Chalkboard Cleaner

**SECTION II – COMPOSITION/HAZARDOUS INGREDIENTS**

<b>HAZARDOUS INGREDIENT</b>	<b>CAS NUMBER</b>	<b>OSHA PEL</b>	<b>ACGIH TLV</b>
2-Butoxy Ethanol	111-76-2	50 ppm	20 ppm
Ethyl Alcohol	75-28-5	1000 ppm	1000 ppm
Propane/N-Butane	68476-86-8	N/A	1000 ppm

**SECTION III – HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW:** Aerosol under pressure do not expose to high temperatures 120°F or store in direct sunlight.  
**ROUTES OF ENTRY:** Eyes, Ingestion, Inhalation, Skin  
**EYES:** Causes irritation.  
**INGESTION:** May cause gastrointestinal irritation, nausea.  
**INHALATION:** No hazards with normal use.  
**SKIN:** May cause mild irritation, dryness with prolonged or repeated contact.  
**MEDICAL CONDITION AGGRAVATED:** None known  
**CHRONIC HEALTH HAZARDS:** None known  
**CARCINOGENICITY:**  
**OSHA:** No **ACGIH:** No **NTP:** No **IARC:** No **OTHER:** N/A

**SECTION IV - FIRST AID MEASURES**

**EYES:** Immediately flush with water for 15 - 20 minutes while holding eyelids open. Seek medical attention if irritation persists.  
**INGESTION:** Do not induce vomiting unless directed by medical authority. Immediately rinse mouth with water. Drink large quantities (1 qt, 2-4 glasses) of warm water. Seek immediate medical attention.  
**INHALATION:** Move to fresh air. If breathing is difficult, administer oxygen. If not breathing administer artificial respiration or at any sign of loss of consciousness seek immediate medical attention.  
**SKIN:** Immediately wash with soap and water for 15 minutes. Seek medical attention if irritation develops.  
**NOTE TO PHYSICIAN:** None

**SECTION V – FIRE-FIGHTING MEASURES**

**FLASH POINT:** Not Tested  
**FLAMMABLE LIMITS IN AIR, (% BY VOLUME) UPPER:** N/A **LOWER:** N/A  
**EXTINGUISHING MEDIA:** Dry chemical, carbon dioxide, alcohol foam, and water spray or fog.  
**SPECIAL FIRE FIGHTING PROCEDURES:** Wear NIOSH approved Self Contained Breathing Apparatus with a full face piece operated in a positive pressure demand mode with full body protective clothing when fighting fires. Use water spray only to cool exposed containers.  
**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Contents under pressure. Exposure to temperatures above 120 F may cause bursting.  
**HAZARDOUS COMBUSTION PRODUCTS:** Oxides of carbon

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**SECTION VI – ACCIDENTAL RELEASE MEASURES**

**SPILL:** Use non-combustible material like vermiculite, sand or earth on spill sweep to clean. Dispose in accordance with local, state and federal laws. Small releases may be wiped up with wiping material.  
**WASTE DISPOSAL:** Dispose of in accordance with federal, state, and local regulations. Do not dump in sewers. Wrap container and place in trash collection, do not puncture, incinerate, or reuse container.  
**RCRA STATUS:** Not listed as hazardous waste under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

**SECTION VII – HANDLING AND STORAGE**

**HANDLING AND STORAGE:** Store in a cool, dry area. Do not use or store near heat or open flames. Exposure to temperatures above 120 F may cause bursting.  
**OTHER PRECAUTIONS:** None

**SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION**

**ENGINEERING CONTROLS / VENTILATION:** Ambient ventilation suitable, forced ventilation should not be required  
**RESPIRATORY PROTECTION:** Not required with normal use.  
**PROTECTIVE CLOTHING:** None  
**ADDITIONAL MEASURES:** Follow normal hygiene practices  
**EXPOSURE GUIDELINES:** N/A

**SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES**

**APPEARANCE:** White Foam  
**ODOR:** Mild odor  
**PHYSICAL STATE:** Liquid  
**BOILING POINT:** 212°F  
**FREEZING POINT:** Not Tested  
**VAPOR PRESSURE (mm Hg):** 17.5 @ 77°F (25°C)  
**VAPOR DENSITY (AIR=1):** >1  
**EVAPORATION RATE:** <1  
**SPECIFIC GRAVITY (H2O=1):** 0.983  
**pH:** N/A  
**SOLIDS (%):** N/A  
**SOLUBILITY IN WATER:** 100 %  
**VOLATILITY INCLUDING WATER (%):** >80%  
**VOLATILE ORGANIC COMPOUNDS (VOC):** 10%  
**DIELECTRIC STRENGTH (Volts):** N/A

**SECTION X – STABILITY AND REACTIVITY DATA**

**CHEMICAL STABILITY:** Stable  
**CONDITIONS TO AVOID:** Temperatures greater than 200 F.  
**INCOMPATIBILITY:** Strong oxidizers, Alkalies, Acids  
**HAZARDOUS DECOMPOSITION OR BY-PRODUCT:** Oxides of Carbon  
**HAZARDOUS POLYMERIZATION:** Will not occur

**SECTION XI – TOXICOLOGICAL INFORMATION**

**TOXICOLOGICAL INFORMATION:** 2-Butoxy Ethanol - 111-76-2; Oral rat LD50: 470 mg/kg; Inhalation rat LC50: 450ppm/4H, 2.21 mg/L 4hr, rat; Skin rabbit LD50: 220 mg/kg; investigated as a tumorigen, mutagen, reproductive effector. Reproductive Toxicity: Has shown teratogenic effects in laboratory animals.

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**SECTION XII – ECOLOGICAL INFORMATION**

**ECOLOGICAL INFORMATION:** 2-Butoxy Ethanol - 111-76-2 - LC50/96-hour values for fish are over 100 mg/l. This material is not expected to be toxic to aquatic life.

**SECTION XIII – DISPOSAL CONSIDERATIONS**

**WASTE DISPOSAL:** Dispose of in accordance with federal, state, and local regulations. Do not dump in sewers. Wrap container and place in trash collection, do not puncture, incinerate, or reuse container.

**RCRA STATUS:** Not listed as hazardous waste under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

**SECTION XIV - TRANSPORTATION INFORMATION**

**PROPER SHIPPING NAME:** Non Corrosive Cleaning Compound

**HAZARD CLASS/DIVISION:** ORM-D

**AIR SHIPMENT**

**PROPER SHIPPING NAME:** Aerosols, Ltd. Qty. Class 2

**HAZARD CLASS/DIVISION:** 2.1

**UN/NA NUMBER:** UN 1950

**SHIPPING BY WATER:**

**VESSEL (IMO/IMDG)**

**PROPER SHIPPING NAME:** Aerosols, Ltd. Qty. Class 2

**HAZARD CLASS/DIVISION:** 2.1

**UN/NA NUMBER:** UN 1950

**NOTE:**

**SECTION XV - REGULATORY INFORMATION**

**TSCA STATUS:** All Chemicals are listed or exempt.

**CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):** METHANOL – 67-56-1

**SARA 311/312 HAZARD CATEGORIES:** 2-Butoxy ethanol - 111-76-2 - Acute health hazard, Chronic health hazard.

**SARA 313 REPORTABLE INGREDIENTS:** 2-BUTOXY ETHANOL - 111-76-2; METHYL ALCOHOL - 67-56-1

**CLEAN WATER ACT:** None

**STATE REGULATIONS:** This product contains no known chemicals regulated by California's proposition 65.

New Jersey's Worker and community Right to Know Act: 2-BUTOXY ETHANOL - 111-76-2; METHANOL – 67-56-1 Massachusetts'

Right to Know Law: 2-BUTOXY ETHANOL - 111-76-2

Pennsylvania's Right to Know Act: 2-BUTOXY ETHANOL - 111-76-2; METHANOL – 67-56-1

**INTERNATIONAL REGULATIONS:** 2-Butoxy Ethanol - 111-76-2, Europe (EINECS), Japan (ENCS), Australia (AICS), WHMIS (Canada), DSCL (EEC), NDSL, Korea (ECL), Philippines (PICCS), New Zealand (NZIOC), China (IECS).

**NFPA HEALTH:** 1

**HMIS HEALTH:** 1

**NFPA FLAMMABILITY:** 1

**HMIS FLAMMABILITY:** 0

**NFPA REACTIVITY:** 1

**HMIS REACTIVITY:** 1

**NFPA OTHER:** N/A

**HMIS PROTECTION:** A

**SECTION XVI - ADDITIONAL INFORMATION**

**PREPARATION BY:** John Holdren

**DISCLAIMER:** To the best of our knowledge, information contained herein is accurate. However there is no assumption of liability for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazard which exists. The information contained in this MSDS was obtained from current and reliable sources; however, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the

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conditions or handling, storage and disposal of this product are beyond the control of the manufacturer, the manufacturer will not be responsible for loss, injury, or expense arising out of the products improper use. No warranty, expressed or inferred, regarding the product described in this MSDS shall be created or inferred by any statement in this MSDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product which may not be covered by this MSDS. The user is responsible for full compliance.