



View Section : 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

SECTION 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION

(N/A)

Product Name: **Multi-Clean Butyl Plus**
Manufacturer Name: Multi-Clean, A Division of Minuteman International, Inc.
Address: 600 Cardigan Road
Shoreview, MN 55126

Emergency Telephone Number: 800-255-3924

Product Description: Product Class: Water-based degreaser

Business Phone: Telephone Number for Information: 651-481-1900
Revision Date: 10/06
MATERIAL SAFETY DATA SHEET
(COMPLIES WITH 29CFR 1910.1200)

Identity (As Used on Label and List): Multi-Clean Butyl Plus

NFPA SYSTEM:
A: 2-butoxy ethanol
Health Hazard: 2
Fire Hazard: 0
Reactivity Hazard: 0

Product Codes:

[To Top of page](#)

SECTION 2 : COMPOSITION, INFORMATION ON INGREDIENTS

: (N/A)

Ingredient Name	CAS#	Ingredient Percent
A: 2-butoxy ethanol	111-76-2	5 - 10%
B: Sodium Metasilicate Pentahydrate	6834-92-0	1 - 5%
C: Sodium Carbonate	1310-73-2	1 - 5%
D: Anionic Surfactant	Proprietary/mixture	1 - 5%
E: Water	7732-18-5	60 - 100%

[To Top of page](#)

SECTION 3 : HAZARDS IDENTIFICATION

: (N/A)

Physical State: Liquid
Color: Blue


Odor: Solvent/floral odor.
Primary Hazards: Corrosive

Applies to all ingredients:

Route of Exposure: Skin Absorption, Inhalation
Potential Health Effects:
Eye Contact: May cause chemical burns.
Skin Contact: May cause chemical burns.
Ingestion: May be harmful if swallowed.
Carcinogenicity:
OSHA Designation: Regulated?: No
NTP Designation: No
IARC Designation: Monographs?: No
Signs/Symptoms: Irritation on direct contact.
Aggravation of Pre-Existing Conditions: Not Available

A: 2-butoxy ethanol:


Potential Health Effects:
Inhalation: Overexposure to 2-Butoxy ethanol (butyl) vapors may cause central nervous system effects including drowsiness, headaches, nausea and dizziness.
Chronic Health Effects: Health Hazards, Chronic: Overexposure to 2-Butoxy ethanol (butyl) may cause damage to one or more of the target organs listed below.
Target Organs: 2-butoxy ethanol ("butyl"): Liver, kidneys, lymphoid system, skin, blood, eyes and respiratory system.

[To Top of page](#) 

SECTION 4 : FIRST AID MEASURES

: (N/A)


Eye Contact: Flush eyes with running water for at least 15 minutes. If irritation persists, obtain medical attention.
Skin Contact: Flush thoroughly with cool water. Remove and wash contaminated clothing before reuse.
Ingestion: If Swallowed: Do not induce vomiting. If the person can swallow, give several glasses of water. Obtain immediate medical attention.
Sources Used: Raw material data, general toxicology from the trade for similar products.

[To Top of page](#) 

SECTION 5 : FIRE FIGHTING MEASURES

: (N/A)

Fire: Flammability: No
Flammable Limits: Not Applicable
Flash Point: None
Flash Point Method: None
Auto Ignition Temperature: Not Applicable
Flammability Class: TDG: Non-flammable
Extinguishing Media: Not Applicable
Fire Fighting Instructions: Not Applicable
Sensitivity to Impact: Sensitivity to Mechanical Impact: None
Static Discharge Effects: Sensitivity to Static Discharge: None
Unusual Fire Hazards: Not Available


[To Top of page](#) 

SECTION 6 : ACCIDENTAL RELEASE MEASURES

: (N/A)

Spill Cleanup Measures:


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.

[To Top of page](#) 

SECTION 7 : HANDLING and STORAGE

: (N/A)

Handling: Normal care in handling
Storage: Normal care in storage.
Hygiene Practices: Do not contaminate food or beverages with cleaning chemicals.
Other Precautions: Keep out of reach of children. Keep from freezing.

[To Top of page](#) 

SECTION 8 : EXPOSURE CONTROLS, PERSONAL PROTECTION

: (N/A)

Ventilation System: Special: Not required
Mechanical (General): Ventilate to keep vapor levels below PEL and TLV, listed in Section 11.

Local Exhaust: Not required

Other Exhaust Information: Not required

Hand Protection Description: Protective Gloves: Natural rubber or synthetic.

Eye/Face Protection: Approved safety goggles or glasses.

Protective Clothing/Body Protection: Other Protective Clothing or Equipment: Not required

Respiratory Protection: (Specify Types): Not required

Other Protective: Footwear: Chemical resistant

Exposure Limits: Chemical A: 2-butoxy ethanol
Recom.: 25 ppm
Chemical B: Sodium Metasilicate Pentahydrate
Recom.: 2 mg/M3
Chemical C: Sodium Carbonate
Recom.: Not Applicable
Chemical D: Anionic Surfactant
Recom.: Not Applicable
Chemical E: Water
Recom.: Not Available

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

Ingredient Guidelines**Ingredient: A: 2-butoxy ethanol**

Guideline Type: OSHA PEL-TWA
Guideline Information: 25 ppm (skin)
Guideline Type: ACGIH TLV-TWA
Guideline Information: 25 ppm (skin)

Ingredient: B: Sodium Metasilicate Pentahydrate

Guideline Type: OSHA PEL-TWA
Guideline Information: Not Applicable
Guideline Type: ACGIH TLV-TWA
Guideline Information: Not Applicable

Ingredient: C: Sodium Carbonate


Guideline Type: OSHA PEL-TWA
Guideline Information: Not Applicable
Guideline Type: ACGIH TLV-TWA
Guideline Information: Not Applicable

Ingredient: D: Anionic Surfactant

Guideline Type: OSHA PEL-TWA
Guideline Information: Not Applicable
Guideline Type: ACGIH TLV-TWA
Guideline Information: Not Applicable

Ingredient: E: Water


Guideline Type: OSHA PEL-TWA
Guideline Information: Not Applicable
Guideline Type: ACGIH TLV-TWA
Guideline Information: Not Applicable

[To Top of page](#) 

SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

: (N/A)


pH: 13.1 +/- 0.2
Vapor Pressure: (MM HG): Not Available
Vapor Density: (Air = 1): > 1
Boiling Point: Approximately 212 deg F
Melting Point: Not Applicable
Solubility: In Water: Complete
Specific Gravity: (H2O) = 1: 1.05
Evaporation Point: (Butyl Acetate = 1): Not Available
Percent Volatile: > 75
Odor Threshold: Not Available
Coefficient of Water/Oil Distribution: Oil/Water Distribution Coefficient: Not Available

[To Top of page](#) 

SECTION 10 : STABILITY and REACTIVITY

: (N/A)

Chemical Stability: Stable
Conditions to Avoid: Not Applicable
Incompatibilities with Other Materials: (Materials to avoid): Not Available
Hazardous Polymerization: Will not occur
Conditions to Avoid: Not Applicable
Hazardous Decomposition Products: Or By-products: Not Available

[To Top of page](#) 

SECTION 11 : TOXICOLOGICAL INFORMATION

: (N/A)

Applies to all ingredients:

Mutagenicity: Mutagen: No known relevance to humans.
Teratogenicity: Teratogen: No known relevance to humans.
Reproductive Toxicity: Reproductive Toxin Status: No known relevance to humans.
Other Toxicological Information: Toxicologically Synergistic Products: Not Available

A: 2-butoxy ethanol :

Ingestion Effects: LD50: 1.48 g/kg (rat, oral)
Inhalation Effects: LC50: Not Available
Other Toxicological Information: Chemical: A

OSHA PEL: 25 ppm (skin)
ACGIH TLV: 25 ppm (skin)
Recom.: 25 ppm

B: Sodium Metasilicate Pentahydrate :

Ingestion Effects: LD50: 800 mg/kg
Inhalation Effects: LC50: Not Available
Other Toxicological Information: Chemical B:
OSHA PEL: Not Applicable
ACGIH TLV: Not Applicable
Recom.: 2 mg/M3

C: Sodium Carbonate :


Ingestion Effects: LD50: 4,000 mg/kg (rat, oral)
Inhalation Effects: LC50: Not Available
Other Toxicological Information: Chemical: C
OSHA PEL: Not Applicable
ACGIH TLV: Not Applicable
Recom.: Not Applicable

D: Anionic Surfactant :

Ingestion Effects: LD50: 3,400 mg/kg (rat, oral)
Inhalation Effects: LC50: Not Available
Other Toxicological Information: Chemical: D
OSHA PEL: Not Applicable
ACGIH TLV: Not Applicable
Recom.: Not Applicable

E: Water :


Acute Health Effects: LD50: Not Available
Inhalation Effects: LC50: Not Available
Other Toxicological Information: Chemical: E
OSHA PEL: Not Applicable
ACGIH TLV: Not Applicable
Recom.: Not Available

[To Top of page](#) 

SECTION 12 : ECOLOGICAL INFORMATION

: (N/A)

Ecotoxicity: Ecotoxicological Information: Not Available
Chemical Fate Information: Not Available


[To Top of page](#) 

SECTION 13 : DISPOSAL CONSIDERATIONS

: (N/A)

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


RCRA Hazard Class: RCRA Hazard Class: D002, characteristic corrosive

[To Top of page](#) 

SECTION 14 : TRANSPORT INFORMATION

: (N/A)

DOT Shipping Name: Corrosive liquid, basic inorganic, N.O.S. (Containing sodium metasilicate)
DOT UN Number: 3266
DOT Hazard Class: 8
DOT Packing Group: II

[To Top of page](#) 

SECTION 15 : REGULATORY INFORMATION


: (N/A)

Applies to All Ingredients :

TSCA 8(b): Inventory Status:	TSCA Status: All ingredients listed.
SARA:	SARA Title III
Section 302:	Section 302 Extremely Hazardous Chemicals: None
Section 304 CERCLA RQ:	Not Available
Section 312 Hazard Category:	Section 311/312 Hazard Category:
Acute:	Yes
Chronic:	Yes
OSHA 29 CFR 1200:	MATERIAL SAFETY DATA SHEET (COMPLIES WITH 29CFR 1910.1200)
State:	State Regulations: NOTICE STATE OF CALIFORNIA: Warning: This product may contain chemicals known to the State of California to cause cancer or reproductive defects as trace impurities in the standard industrial materials used in the manufacture of this product.
Canada WHMIS:	International Regulations: WHMIS Controlled Product Hazard Class: E

A: 2-butoxy ethanol :

Section 313 Toxic Release Form: Section 313 Toxic Chemicals: 2-butoxy ethanol (glycol ether)

[To Top of page](#) 

SECTION 16 : ADDITIONAL INFORMATION

: (N/A)

MSDS Revision Date:	10/06
MSDS Author:	Prepared By: Mike Elms Telephone Number: 651-481-1900

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NFPA SYSTEM:
A: 2-butoxy ethanol
Health Hazard: 2
Fire Hazard: 0
Reactivity Hazard: 0

OTHER INFORMATION: None

Abbreviations:
N. Ap. - Not Applicable
N.Av. - Not Available

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[To Top of page](#) 