

**SAFETY DATA SHEET**  
Conforms to OSHA HazCom 2012 Standard

**Section 1 - Identification**

Product Identifier FULL-FORCE

Recommended use Floor stripper.

Recommended restrictions For commercial and industrial use only.

**Manufacturer / Importer / Supplier / Distributor Information**

Company Name Myers Supply, Inc.

Address 900 Arch St., Little Rock, AR 72202

Telephone 501-372-6677

Supplier Email info@myerssupply.com

Contact

Emergency Phone 800-255-3924

**Section 2 - Hazard(s) Identification**

Physical Hazards Not Classified

Health Hazards

Acute toxicity, dermal	4	
Acute toxicity, inhalation	4	
Acute toxicity, oral	4	
Serious eye damage/eye irritation	1	
Skin corrosion/irritation	1	
Specific target organ toxicity, single exposure	3	respiratory tract irritation

OSHA defined hazards Not Classified.

Label Elements  
Hazard Symbol



Signal Word Danger

Hazard statement Causes severe eye damage and skin burns. Harmful if swallowed, in contact with skin or if inhaled. May cause respiratory irritation.

Precautionary statement

Prevention Do not breathe mist or vapor. Use only in well-ventilated areas. Wear protective gloves/clothing and eye/face protection. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Keep out of reach of children.

Response If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center/doctor. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage Store locked up. Store in a well-ventilated place. Keep cool.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC) Not classified.

**Section 3 - Composition/Information on ingredients**

Mixture

Hazardous Components

Ingredient Name	CAS #	%
2-Butoxyethanol	111-76-2	60 -80
2-Amino Ethanol	141-43-5	15 - 25

Composition Comments

# SAFETY DATA SHEET

Conforms to OSHA HazCom 2012 Standard

## Section 4 - First-aid Measures

Inhalation	Move to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention immediately.
Skin contact	Remove contaminated clothing and shoes. Immediately flush skin with plenty of water. Get prompt medical attention. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Check and remove contact lenses. Continue to rinse for at least 10 minutes. Get medical attention immediately.
Ingestion	Rinse mouth thoroughly with water. DO NOT induce vomiting. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person. If vomiting occurs, keep head lower than the hips to help prevent aspiration. Call a physician or poison control center immediately.
Most Important symptoms /effects, acute and delayed	Causes skin and eye burns. May cause respiratory tract irritation. Symptoms may be delayed.
Indication of immediate medical attention and special treatment	Treat symptomatically.
General Information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Immediate medical attention is required. In case of shortness of breath, give oxygen. Keep victim warm.

## Section 5 - Fire-fighting measures

Suitable extinguishing media	Carbon dioxide, alcohol-resistant foam, dry chemical, water spray, or water fog.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	None known.
Special protective equipment and precautions for firefighters	Wear suitable protective equipment. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire-fighting equipment /instruction	Move containers from fire area if you can do it without risk. Use water spray to keep fire-exposed containers cool.
General fire hazards	
Specific Methods	

## Section 6 - Accidental release measures

Personal precautions, protective equipment and emergency procedures.	Isolate area. Keep unnecessary personnel away. Use personal protection as recommended in Section 8 of the SDS.
Methods and materials for containment and cleaning up	Contain spill. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Flush area with water.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.

## Section 7 - Handling and storage

Precautions for safe handling	Do not get in eyes, on skin, or on clothing. Do not breathe mist or vapor. Keep container closed. Wash thoroughly after handling. Use Personal Protective Equipment recommended in section 8 of the SDS.
Conditions for safe storage, including any incompatibilities	Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from incompatible materials. Keep container closed. Keep out of reach of children.

## Section 8 - Exposure control/personal protection

### Occupational exposure limits

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
2-Amino Ethanol (CAS 141-43-5)	PEL	6 mg/m <sup>3</sup> , 3 ppm
2-Butoxyethanol (CAS 111-76-2)	PEL	240 mg/m <sup>3</sup> , 50 ppm

#### US. ACGIH Threshold Limit Values

# SAFETY DATA SHEET

## Conforms to OSHA HazCom 2012 Standard

Component	Type	Value
2-Amino Ethanol (CAS 141-43-5)	STEL	6 ppm
2-Amino Ethanol (CAS 141-43-5)	TWA	3 ppm
2-Butoxyethanol (CAS 111-76-2)	TWA	20 ppm

### US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
2-Amino Ethanol (CAS 141-43-5)	STEL	15 mg/m <sup>3</sup> , 6 ppm
2-Amino Ethanol (CAS 141-43-5)	TWA	8 mg/m <sup>3</sup> , 3 ppm
2-Butoxyethanol (CAS 111-76-2)	TWA	24 mg/m <sup>3</sup> , 5 ppm

### Biological limit values

#### US. ACGIH. BEIs. Biological Exposure Indices

Component	Value	Determinate
2-Butoxyethanol (CAS 111-76-2)	200 mg/g	Butoxyacetic acid (BAA), with hydrolysis

\* - For sampling details, please see the source document.

**Exposure guidelines** Use personal protective equipment as required. Keep working clothes separately.

#### US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants

Components	Exposure
2-Butoxyethanol (CAS 111-76-2)	Can be absorbed through the

#### US. Minnesota Hazardous Substances List (Minn. Rules 5206.0400).

Components	Exposure
2-Butoxyethanol (CAS 111-76-2)	Skin designation applies.

#### US. NIOSH: Pocket Guide to Chemical Hazards

Component	Exposure
2-Butoxyethanol (CAS 111-76-2)	Can be absorbed through the

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.100)

Components	Exposure
2-Butoxyethanol (CAS 111-76-2)	Can be absorbed through the

#### US. OSHA Table Z-1-A (29 CFR 1910.100)

Components	Exposure
2-Butoxyethanol (CAS 111-76-2)	Can be absorbed through the

#### US. Tennessee. OELs Occupational Exposure Limits, Table Z1A

Components	Exposure
2-Butoxyethanol (CAS 111-76-2)	Can be absorbed through the

**Appropriate engineering controls** Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits. Provide easy access to water supply and eye wash facilities.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear approved chemical safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

#### Skin protection

**Hand protection** Wear chemical-resistant, impervious gloves. Suitable gloves can be recommended by the glove supplier.

**Other** Not available.

#### Respiratory protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

## Section 9 - Physical and chemical properties

<b>Appearance</b>	Clear.
<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid.

# SAFETY DATA SHEET

Conforms to OSHA HazCom 2012 Standard

Color	Pale Straw.
Odor	Sassafras.
Odor threshold	Not available.
pH (Concentrate)	12.8
Melting point/freezing point	Not available.
Initial boiling point and boiling range	212 °F (100 °C)
Flash point	>201°F (94°C) TCC
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Similar to water.
Vapor density	Similar to water.
Relative density	0.95 ± 0.01
Relative density temperature	75 °F (23.89 °C)
Solubilities	100 % Soluble.
Partition Coefficient n-octanol/water	Not available.
Auto-ignition temperature	Not Available.
Decomposition temperature	Not Available.
Viscosity	< 10 cP
Viscosity Temperature	75 °F (23.89 °C)

## Section 10 - Stability and reactivity

Reactivity	The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	Stable at normal conditions. Can form peroxides on prolonged exposure to air and light.
Possibility of hazardous reaction	Hazardous polymerization does not occur.
Conditions to Avoid	Keep away from heat and direct sunlight. Contact with incompatible materials.
Incompatible materials	Oxidizing agents. Strong acids.
Hazardous Decomposition Products	Carbon monoxide. Carbon dioxide. Nitrogen oxides.

## Section 11 - Toxicological information

### Information on likely routes of exposure

Ingestion	May cause burns of the gastrointestinal tract if swallowed.
Inhalation	Irritating to respiratory system. May cause burns in mucous membranes, throat, esophagus and stomach.
Skin contact	Causes skin burns.
Eye contact	Causes serious eye damage.
Symptoms related to the physical, chemical and toxicological characteristics	Causes skin and eye burns. May cause respiratory tract irritation. Symptoms may be delayed.

### Information on toxicological effects.

**Acute toxicity** Harmful if inhaled, absorbed through skin, or swallowed.

Components	Level	Type	Code	Species	Results
2-Amino Ethanol (CAS 141-43-5)	Acute	Dermal	LD50	Rabbit	1025 mg/kg
	Acute	Oral	LD50	Rat	1715 mg/kg
2-Butoxyethanol (CAS 111-76-2)	Acute	Dermal	LD50	Rabbit	400 mg/kg
	Acute	Inhalation	LC50	Rat	450 mg/l, 4 hrs
	Acute	Oral	LD50	Rat	560 mg/kg

**Skin corrosion/irritation** Causes skin burns.

# SAFETY DATA SHEET

Conforms to OSHA HazCom 2012 Standard

**Serious eye damage/ eye irritation** Causes serious eye damage.

**Respiratory sensitization** Not classified.

**Skin sensitization** Not classified.

**Germ cell mutagenicity** Not classified.

**Carcinogenicity**

**IARC Monographs. Overall Evaluation of Carcinogenicity**

Component	Result	Comment
2-Butoxyethanol (CAS 111-76-2)	3	Not classifiable as to carcinogenicity to humans.

**Reproductive toxicity** This product is not expected to cause reproductive or developmental effects.

**Specific target organ toxicity - single exposure** Irritating to respiratory system.

**Specific target organ toxicity - repeated exposure** Not classified.

**Aspiration hazard** Not classified.

**Chronic effects** 2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged. These effects have not been observed in humans. Prolonged or repeated exposure may cause liver and kidney damage. These effects have not been observed in humans.

**Further information**

## Section 12 - Ecological Information

**Ecotoxicity** The product contains a substance which is very toxic to aquatic organisms.

Components	Species	Test Results
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2-Amino Ethanol, 141-43-5

**Aquatic**

EcoName	EcoCode	EcoSpecies	EcoTestResults
Algae	EC50	Selenastrum capricornutum (new name) Pseudokirchnerella subca	2.5 mg/l, 48 hours
Crustacea	EC50	Daphnia magna	65 mg/l, 48 hours
Fish	LC50	Cyprinus carpio	349 mg/l, 96 hours

**Persistence and degradability** The product is expected to be biodegradable.

**Bioaccumulative potential** Not known.

**Partition coefficient n-octanol / water log (Kow)**

Components	Results
2-Butoxyethanol (CAS 111-76-2)	0.83
2-Amino Ethanol (CAS 141-43-5)	-1.31

**Mobility in soil** No data available.

**Mobility in general** The product is water soluble and may spread in water systems.

**Other adverse effects** None known.

## Section 13 - Disposal considerations

**Disposal instructions** Dispose in accordance with applicable federal, state, and local regulations.

**Local disposal regulations** Dispose of in accordance with local regulations.

**Hazardous waste code** Waste codes should be assigned by the user based on the application for which the product was used.

**Waste from residues / unused products** Dispose in accordance with all applicable regulations.

**Contaminated packaging** Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## Section 14 - Transport information

**DOT**

<b>UN number</b>	UN2491
<b>UN proper shipping name</b>	Ethanolamine solution
<b>Transport hazard class(es)</b>	8

# SAFETY DATA SHEET

Conforms to OSHA HazCom 2012 Standard

Subsidiary class(es)	-
Packing group	III
Special precautions for users	Read safety instructions, SDS and emergency procedures before handling.
Labels required	
Special provisions	IB3, T4, TP1
Packaging exemption	154
Packaging non bulk	203
Packaging bulk	241
<b>IATA</b>	
UN number	UN2491
UN proper shipping name	Ethanolamine solution
Transport hazard class(es)	8
Subsidiary class(es)	-
Packaging group	III
Environmental hazards	
Labels required	Not available.
ERG Code	8L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
<b>IMDG</b>	
UN number	UN2491
UN proper shipping name	ETHANOLAMINE SOLUTION
Transport hazard class(es)	8
Subsidiary class(es)	-
Packaging group	III
Environmental hazards	
Marine pollutant	No.
Labels required	Not available.
EmS	F-A, S-B
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Transportation in bulk according to Annex II of MARPOL 73/78 and IBC Code	This substance/mixture is not intended to be transported in bulk.

## General Information

### Section 15 - Regulatory Information

US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
TSCA Section 12(b) Export Notification (40 CFR707, Subpt. D)	Not regulated.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-CERCLA Hazardous Substance List (40 CFR 302.4	Not listed.

Components	Result
2-Butoxyethanol (CAS 111-76-2)	LISTED

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard	Immediate Hazard	Yes
Categories	Delayed Hazard	No
	Fire Hazard	No
	Pressure Hazard	No
	Reactivity Hazard	No
SARA 302 Extremely hazardous substance		Not listed.
SARA 311/312 Hazardous chemical		Yes
SARA 313 (TRI reporting)		

**SAFETY DATA SHEET**  
**Conforms to OSHA HazCom 2012 Standard**

Chemical name	CAS #	% by wt.
2-Butoxyethanol	111-76-2	60 -80

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants** Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)** Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.

**Food and Drug Administration (FDA)** Not regulated.

**US state regulations**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

**US.Massachusetts RTK - Substance List**

Components  
 2-Amino Ethanol (CAS 141-43-5)  
 2-Butoxyethanol (CAS 111-76-2)

**US.New Jersey Worker and Community Right-to-Know Act**

Components  
 2-Amino Ethanol (CAS 141-43-5)  
 2-Butoxyethanol (CAS 111-76-2)

**US.Pennsylvania RTK - Hazardous Substances**

Components  
 2-Amino Ethanol (CAS 141-43-5)  
 2-Butoxyethanol (CAS 111-76-2)

**US.Rhode Island RTK**

Components  
 2-Amino Ethanol (CAS 141-43-5)  
 2-Butoxyethanol (CAS 111-76-2)

**US - California Proposition 65 - Carcinogens Reproductive**

Not listed.

**International Inventories**

Country(s) or region	Inventory Name	On Inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances	Yes
Unites States Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

\*A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

**Section 16 - Other information, including date of preparation or last version**

Issue date 1/18/2015  
 Revision date  
 Version # 01  
 Further information  
 List of abbreviations

# **SAFETY DATA SHEET**

**Conforms to OSHA HazCom 2012 Standard**

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## **References**

## **Disclaimer**

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