



# SAFETY DATA SHEET

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Revision Number 1

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### GHS product identifier

Product Name Attack

### Other means of identification

Product Code(s) 6100

UN-Number None

Synonyms None

### Recommended use of the chemical and restrictions on use

Recommended Use Degreaser

Uses advised against No information available

### Supplier's details

#### Supplier Address

Sunburst Chemicals, Inc.  
220 W. 86th St.  
Bloomington, MN 55420  
TEL: 952-884-3144

### Emergency telephone number

Emergency Telephone Number 1-866-303-6943

## 2. HAZARDS IDENTIFICATION

### Classification

This chemical is considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200)

Acute Oral Toxicity	Category 4
Skin Corrosion/Irritation	Category 1 Subcategory 1A
Serious Eye Damage/Eye Irritation	Category 1

### GHS Label elements, including precautionary statements

#### Emergency Overview

Signal Word Danger

Hazard Statements

- Harmful if swallowed
- Causes severe skin burns and eye damage

**Appearance** Opaque Tan**Physical State** Liquid**Odor** Butyl ether**Precautionary Statements****Prevention**

- Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Do not breathe dust/fume/gas/mist/vapors/spray
- Wear protective gloves/protective clothing/eye protection/face protection

**General Advice**

- Immediately call a POISON CENTER or doctor/physician

**Eyes**

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- Immediately call a POISON CENTER or doctor/physician.

**Skin**

- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
- Wash contaminated clothing before reuse

**Inhalation**

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

**Ingestion**

- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- Rinse mouth
- Do NOT induce vomiting

**Storage**

- Store locked up

**Disposal**

- Dispose of contents/container to an approved waste disposal plant

**Hazard Not Otherwise Classified (HNOC)**

Not applicable

**Other information**

No information available.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS-No	Weight %	Trade secret
2-Butoxyethanol	111-76-2	3-5	*
Sodium hydroxide	1310-73-2	3 -7	*
Benzenesulfonic acid, C10-16-alkyl derivatives	68584-22-5	3 -7	*
Sodium xylene sulfonate	1300-72-7	1-5	*
Triethanolamine	102-71-6	1-5	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

## 4. FIRST AID MEASURES

### Description of necessary first-aid measures

<b>General Advice</b>	Immediate medical attention is required.
<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek immediate medical attention/advice.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. Seek immediate medical attention/advice.
<b>Inhalation</b>	Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.
<b>Ingestion</b>	Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

### Most important symptoms/effects, acute and delayed

**Most Important Symptoms/Effects** No information available.

### Indication of immediate medical attention and special treatment needed, if necessary

**Notes to Physician** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

Water. Carbon dioxide (CO<sub>2</sub>). Dry chemical.

**Unsuitable Extinguishing Media** None

### Specific Hazards Arising from the Chemical

None known

**Hazardous Combustion Products** None.

### Explosion Data

<b>Sensitivity to Mechanical Impact</b>	None
<b>Sensitivity to Static Discharge</b>	None

### Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal Precautions** Avoid contact with skin, eyes and clothing. Avoid inhalation of dust. Ensure adequate ventilation. Use personal protective equipment.

### Environmental Precautions

**Environmental Precautions** Avoid release to the environment. Collect spillage. See Section 12 for additional Ecological Information Dispose of contents/container to an approved waste disposal plant. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.

### Methods and materials for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Cleaning Up** Absorb spilled material with an absorbent material such as clay, sawdust, or sand. Sweep up and shovel into suitable containers for disposal. After complete clean up by sweeping, area may be washed with large amounts of water if necessary

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Handling** Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not breathe vapors/dust. Do not eat, drink or smoke when using this product.

### Conditions for safe storage, including any incompatibilities

**Storage** Keep container tightly closed. Keep container closed when not in use. Keep out of the reach of children.

**Incompatible Products** None

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control parameters

#### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
2-Butoxyethanol 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m <sup>3</sup> (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m <sup>3</sup> (vacated) S* S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m <sup>3</sup>
Sodium hydroxide 1310-73-2	Ceiling: 2 mg/m <sup>3</sup>	(vacated) Ceiling: 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>
Triethanolamine 102-71-6	TWA: 5 mg/m <sup>3</sup>	-	-

### Appropriate engineering controls

**Engineering Measures** Showers  
Eyewash stations  
Ventilation systems

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

**Eye/Face Protection** Tightly fitting safety goggles.  
**Skin and Body Protection** Rubber gloves. Rubber apron.  
**Respiratory Protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

**Hygiene Measures** Wash thoroughly after handling.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

**Physical State** Liquid  
**Odor** Butyl ether  
**Appearance** Opaque Tan  
**Odor Threshold** No information available

<u>Property</u>	<u>Values</u>	<u>Remarks/ - Method</u>
<b>pH</b>	13.0	None known
<b>Melting Point/Range</b>	No data available	None known
<b>Boiling Point/Boiling Range</b>	100 °C / 212 °F	None known

<b>Flash Point</b>	98 °C / 208.4 °F	None known
<b>Evaporation rate</b>	No data available	None known
<b>Flammability (solid, gas)</b>	No data available	None known
<b>Flammability Limits in Air</b>		
upper flammability limit	No data available	
lower flammability limit	No data available	
<b>Vapor Pressure</b>	No data available	None known
<b>Vapor Density</b>	No data available	None known
<b>Relative Density</b>	No data available	None known
<b>Specific Gravity</b>	No data available	None known
<b>Water Solubility</b>	Soluble	None known
<b>Solubility in other solvents</b>	No data available	None known
<b>Partition coefficient: n-octanol/water</b>	No data available	None known
<b>Autoignition Temperature</b>	No data available	None known
<b>Decomposition Temperature</b>	No data available	None known
<b>Viscosity</b>	No data available	None known
<b>Flammable Properties</b>	Not flammable	
<b>Explosive Properties</b>	Not explosive	
<b>Oxidizing Properties</b>	Not an oxidizer	

**Other information**

**VOC Content (%)** 3-5%

## 10. STABILITY AND REACTIVITY

**Reactivity**

No data available.

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

None under normal processing.

**Conditions to avoid**

None known based on information supplied.

**Incompatible materials**

None

**Hazardous decomposition products**

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure****Product Information****Inhalation**

May cause irritation of respiratory tract.

**Eye Contact**

Eye contact with corrosive substances can cause eye burns.

**Skin Contact**

Skin contact with corrosive substances can cause skin burns.

**Ingestion**

Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
2-Butoxyethanol	= 470 mg/kg ( Rat )	= 400 mg/kg ( Rabbit ) = 2270 mg/kg ( Rat )	= 2.21 mg/L ( Rat ) 4 h = 450 ppm ( Rat ) 4 h
Sodium hydroxide		= 1350 m/kg (Rabbit)	-
Benzenesulfonic acid, C10-16-alkyl derivatives	= 530 mg/kg ( Rat )	= 530 mg/kg ( Rat )	-
Sodium xylene sulfonate	= 7200 mg/kg ( Rat )	-	-
Triethanolamine	= 4190 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit ) > 16 mL/kg ( Rat )	-

**Symptoms related to the physical, chemical and toxicological characteristics****Symptoms**

No information available.

**Delayed and immediate effects and also chronic effects from short and long term exposure****Sensitization**

No information available.

**Mutagenic Effects**

No information available.

**Carcinogenicity**

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
2-Butoxyethanol	A3	Group 3		
Triethanolamine		Group 3		

**ACGIH: (American Conference of Governmental Industrial Hygienists)**

A3 - Animal Carcinogen

**IARC: (International Agency for Research on Cancer)**

Group 3: Not Classifiable as to its Carcinogenicity to Humans

**Reproductive Toxicity**

No information available.

**STOT - single exposure**

No information available.

**STOT - repeated exposure**

No information available.

**Aspiration Hazard**

No information available.

**Numerical measures of toxicity • - Product**

The following values are calculated based on chapter 3.1 of the GHS document:

**LD50 Oral**

2274 mg/kg; Acute toxicity estimate

**LD50 Dermal**

2478 mg/kg; Acute toxicity estimate

**Inhalation****gas**

42529

**dust/mist**

14.2 mg/L; Acute toxicity estimate

**Vapor**

104 mg/L; Acute toxicity estimate

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

Harmful to aquatic life with long lasting effects.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
2-Butoxyethanol		LC50 96 h: = 1490 mg/L static (Lepomis macrochirus) LC50 96 h: = 2950 mg/L (Lepomis macrochirus)		EC50 24 h: 1698 - 1940 mg/L (Daphnia magna) EC50 48 h: > 1000 mg/L (Daphnia magna)
Sodium hydroxide		LC50 96 h: = 46.4 mg/L (Leuciscus idus)		
Benzenesulfonic acid, C10-16-alkyl derivatives		LC50 96 h: = 3 mg/L static (Oncorhynchus mykiss)	EC50 = 5 mg/L 6 h	EC50 48 h: = 2.9 mg/L (Daphnia magna)

Triethanolamine	EC50 72 h: = 216 mg/L (Desmodesmus subspicatus) EC50 96 h: = 169 mg/L (Desmodesmus subspicatus)	LC50 96 h: 10600 - 13000 mg/L flow-through (Pimephales promelas) LC50 96 h: > 1000 mg/L static (Pimephales promelas) LC50 96 h: 450 - 1000 mg/L static (Lepomis macrochirus)	EC50 > 10000 mg/L 30 min	EC50 24 h: = 1386 mg/L (Daphnia magna)
Diethanolamine	EC50 72 h: = 7.8 mg/L (Desmodesmus subspicatus) EC50 96 h: 2.1 - 2.3 mg/L (Pseudokirchneriella subcapitata)	LC50 96 h: 4460 - 4980 mg/L flow-through (Pimephales promelas) LC50 96 h: 1200 - 1580 mg/L static (Pimephales promelas) LC50 96 h: 600 - 1000 mg/L static (Lepomis macrochirus)		EC50 48 h: = 55 mg/L (Daphnia magna)
Ethanolamine	EC50 72 h: = 15 mg/L (Desmodesmus subspicatus)	LC50: 227 mg/L Pimephales promelas 96 h flow-through LC50: 3684 mg/L Brachydanio rerio 96 h static LC50: 300-1000 mg/L Lepomis macrochirus 96 h static LC50: 114-196 mg/L Oncorhynchus mykiss 96 h static LC50: >200 mg/L Oncorhynchus mykiss 96 h flow-through	EC50 = 110 mg/L 17 h EC50 = 12200 mg/L 2 h EC50 = 13.7 mg/L 30 min	EC50 48 h: = 65 mg/L (Daphnia magna)

**Persistence and Degradability** No information available.

**Bioaccumulation** No information available.

Chemical Name	Log Pow
2-Butoxyethanol	0.81
Benzenesulfonic acid, C10-16-alkyl derivatives	2
Triethanolamine	-2.53

**Other Adverse Effects**

No information available.

### 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Methods** Dispose of in accordance with federal, state, and local regulations

**Contaminated Packaging** Dispose of in accordance with federal, state, and local regulations.

Chemical Name	California Hazardous Waste
Sodium hydroxide	Toxic Corrosive

### 14. TRANSPORT INFORMATION

**DOT** Not Regulated

### 15. REGULATORY INFORMATION

**International Inventories**

TSCA Complies  
DSL Complies  
EINECS Complies

**Legend**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**U.S. Federal Regulations**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
2-Butoxyethanol	111-76-2	3-5	1.0

**SARA 311/312 Hazard Categories**

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

**Clean Water Act**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium hydroxide	1000 lb			X

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Sodium hydroxide	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

**U.S. State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
2-Butoxyethanol	X	X	X	X	X
Sodium hydroxide	X	X	X		X
Triethanolamine	X	X	X		X

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

**16. OTHER INFORMATION**

<b><u>NFPA</u></b>	Health Hazard 3	Flammability 1	Instability 0	Physical and Chemical Hazards -
<b><u>HMIS</u></b>	Health Hazard 3	Flammability 1	Physical Hazard 0	Personal Protection B

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**General Disclaimer**

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Safety Data Sheet**