



# SAFETY DATA SHEET

Issuing Date 21-Jan-2014

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Revision Number 5

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

### GHS product identifier

**Product Name** Challenge

### Other means of identification

**Product Code(s)** 6118

**UN Number** UN3266

**Synonyms** None

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

**Recommended Use** Kitchen Degreaser, Decarbonizer

**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** 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)

### **PRODUCT AS SOLD**

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

### **PRODUCT AT USE DILUTION**

Acute Dermal Toxicity	Category 4
Skin Corrosion/Irritation	Category 1
Serious Eye Damage/Eye Irritation	Category 1

### GHS Label elements, including precautionary statements

#### Emergency Overview

### **PRODUCT AS SOLD**

<b>Signal Word</b>	Danger
<b>Hazard Statements</b>	<ul style="list-style-type: none"><li>• Harmful if in contact with skin</li><li>• Causes severe skin burns and eye damage</li></ul>



**Appearance** Amber

**Physical State** Liquid

**Odor** Solvent

**Precautionary Statements**

**Prevention**

- Wear protective gloves and clothing
- Do not breathe mist
- Wash face, hands, and any exposed skin thoroughly after handling

**General Advice**

- IF exposed or concerned: Get medical attention/advice

**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: Wash with plenty of soap and water
- Take off contaminated clothing and wash before reuse
- If skin irritation occurs: Get medical advice/attention
- Call a POISON CENTER or a doctor/physician if you feel unwell

**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 immediately
- Rinse mouth, sip a glass of water if able to do so.
- Do NOT induce vomiting.

**Storage**

- Store locked up
- Store in a well-ventilated place. Keep container tightly closed

**Disposal**

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

**GHS Label elements, including precautionary statements**

<b>Signal Word</b>		<b>PRODUCT AT USE DILUTION</b>	
<b>Hazard Statements</b>		<b>Danger</b>	
<ul style="list-style-type: none"> <li>• Harmful if swallowed</li> <li>• Causes severe skin burns and eye damage</li> </ul>		<b>Emergency Overview</b>	
<b>Appearance</b> Colorless to Amber	<b>Physical State</b> Liquid	<b>Odor</b> Solvent	

**Precautionary Statements****Prevention**

- Wear protective gloves / protective clothing / eye protection / face protection
- Wash face, hands and exposed skin thoroughly after handling.

**General Advice**

- IF exposed or concerned: Get medical attention/advice

**Eyes**

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- If eye irritation persists: get medical advice / attention.

**Skin**

- IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water.
- Wash contaminated clothing before reuse
- If skin irritation occurs: Get medical advice / attention

**Inhalation**

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- Call a POISON CENTER or doctor / physician if you feel unwell.

**Ingestion**

- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- Rinse mouth, sip a glass of water if able to do so.
- Do NOT induce vomiting

**Storage**

- Store locked up
- Store in a well-ventilated place. Keep container tightly closed

**Disposal**

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

**3. COMPOSITION/INFORMATION ON INGREDIENTS****PRODUCT AS SOLD**

Chemical Name	CAS-No	Weight %	Trade secret
2-Butoxyethanol	111-76-2	2 - 10	*
Benzenesulfonic acid, C10-16-alkyl derivatives	68584-22-5	2 - 10	*
Potassium Hydroxide	1310-58-3	4 - 8	*
Triethanolamine	102-71-6	1 - 5	*

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

**PRODUCT AT USE DILUTION**

Contains ingredients listed above.

**4. FIRST AID MEASURES****PRODUCT AS SOLD****Description of necessary first-aid measures**

**General Advice** – Immediate medical attention is required

**Eye Contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek immediate medical attention/advice.

**Skin Contact**

Wash off with warm water and soap. Remove and wash contaminated clothing before re-use. Call a physician or a poison center immediately.

**Ingestion**

Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.

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

**Most Important Symptoms/Effects** Slippery feeling, burning sensation on skin or eyes

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

**Notes to Physician** Treat symptomatically.

<b>Eye Contact</b>	<b>PRODUCT AT USE DILUTION</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 with warm water and soap. Remove and wash contaminated clothing before re-use. 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. Seek immediate medical attention / advice.

**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**

No information available

**Explosion Data**

**Sensitivity to Mechanical Impact** None

**Sensitivity to Static Discharge** None

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES**

**PRODUCT AS SOLD**

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Avoid contact with skin, eyes and clothing. Do not breathe spray mist. Use personal protective equipment. If spilled, take caution, as material can cause surfaces to become slippery.

**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.

**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** Collect and reuse if possible. Following product recovery, flush area with water.

<b>Personal Precautions:</b>	<b>PRODUCT AT USE DILUTION</b> Avoid contact with skin, eyes and clothing. Do not breathe spray mist. Use personal protective equipment. Solution can cause surfaces to become slippery.
<b>Environmental Precautions</b>	Avoid release to the environment. Rinse or mop up use solutions. Small volumes may be flushed down sanitary sewer drains.
<b>Methods for Containment</b>	Prevent solutions from further spillage, if safe to do so.
<b>Methods for Cleaning Up</b>	Flush area with water.

## 7. HANDLING AND STORAGE

### PRODUCT AS SOLD

#### Precautions for safe handling

##### Handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Do not breathe vapors or spray mist. Do not eat, drink or smoke when using this product, or its use solutions.

#### Conditions for safe storage, including any incompatibilities

##### Storage

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

##### Incompatible Products

None known based on information supplied.

	<b>PRODUCT AT USE DILUTION</b>
<b>Advice on safe handling</b>	Do not ingest. Do not get in eyes, on skin or on clothing. Do not breathe mist. Wash hands thoroughly after handling.
<b>Conditions for safe storage</b>	Keep out of reach of children. Store in suitable labeled containers.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Control parameters

#### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDCH
2-Butoxyethanol	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m <sup>3</sup>	TWA: 5 ppm IDLH: 700 ppm
Triethanolamine	TWA: 5 mg/m <sup>3</sup>	= 6 mg/m <sup>3</sup>	-

#### Appropriate engineering controls

##### Engineering Measures

Eyewash stations

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

##### Eye/Face Protection

Tightly fitting safety goggles.

##### Skin and Body Protection

Rubber or vinyl gloves when handling solid chemicals or their use solutions, as well as a 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

### PRODUCT AS SOLD

#### Information on basic physical and chemical properties

##### Physical State

Liquid

##### Appearance

Amber

##### Odor

Solvent

##### Odor Threshold

No information available

#### Property

#### Values for Product as Sold

#### Values for Product at Use Dilution

pH	13.2 – 14.0
Melting Point/Range	None
Boiling Point/Boiling Range	212 °F
Flash Point	None.
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Flammability Limits in Air	
upper flammability limit	No data available
lower flammability limit	No data available
Vapor Pressure	No data available
Vapor Density	No data available
Relative Density	No data available
Specific Gravity	No data available.

12.0 – 13.0
212 °F
Physical State – Liquid
Odor – Solvent
Appearance – Colorless to amber

<b>Water Solubility</b>	Complete
<b>Solubility in other solvents</b>	No data available
<b>Partition coefficient: n-octanol/water</b>	No data available
<b>Autoignition Temperature</b>	No data available
<b>Decomposition Temperature</b>	No data available
<b>Viscosity</b>	No data available

**Flammable Properties** Not flammable

**Explosive Properties** Not explosive  
**Oxidizing Properties** Not an oxidizer

**Other information**

**VOC Content (%)** 0%

## 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 known based on information supplied.

**Hazardous decomposition products**

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

### PRODUCT AS SOLD

**Information on likely routes of exposure**

**Product Information:**

<b>Eye Contact</b>	Causes serious eye damage.
<b>Skin Contact</b>	Causes severe skin burns.
<b>Ingestion</b>	Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
<b>Inhalation</b>	May cause irritation of the respiratory tract.

### PRODUCT AT USE DILUTION

<b>Eye Contact</b>	Causes serious eye damage
<b>Skin Contact</b>	Causes severe skin burns
<b>Inhalation</b>	May cause irritation of the respiratory tract.
<b>Ingestions</b>	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)	2.21 mg/L (Rat, 4h 950 ppm)
Benzenesulfonic acid, C10-16-alkyl derivatives	= 1470 mg/kg ( Rat )	> 2000 mg/kg ( Rat )	-
Potassium Hydroxide	= 273 mg/kg ( Rat )	-	-
Triethanolamine	= 2200 mg/kg ( Rat )	> 2000 mg/kg ( Rat )	-

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

**Symptoms** Redness, burning sensation

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

**Sensitization** No information available.  
**Mutagenic Effects** No information available.  
**Carcinogenicity** See table below.

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

**ACHIH: (American Conference of Governmental Industrial Hygienists.**

A3 – Animal Carcinogen

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

Group 3: Not Classified 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** No information available.  
**LD50 Dermal** No information available.

**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)
Potassium Hydroxide	-	LC50 96 h: = 80 mg/L static (Gambusia affinis)	-	-
Benzenesulfonic acid, C10-16-alkyl derivatives	EC50 96h: = 0.97 mg/L	LC50 96 h: = 1.67 mg/L (Bluegill Sunfish)		EC50 48 h: = 7.6 mg/L (Daphnia magna)
2-Butoxyethanol	-	LC50 96 h: = 1490 mg/L (Bluegill Sunfish)	-	-
Triethanolamine	EC50 96h: = 169 mg/L (Scenedesmus subspicatus)	LC50 96 h: = 11800 mg/L static (Flathead Minnow)	EC50 30m: = 525 mg/L	EC50 48h: = 1850 mg/L (Daphnia magna)

**Persistence and Degradability** No information available.  
**Bioaccumulation** No information available.

**Other Adverse Effects** No information available.

**13. DISPOSAL CONSIDERATIONS**

**PRODUCT AS SOLD**

**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.

**PRODUCT AT USE DILUTION**  
 Dispose of in accordance of the federal, state, local regulations.

**14. TRANSPORT INFORMATION**

**DOT**

**UN NUMBER** UN3266

<b>Proper Shipping Name</b>	Corrosive Liquid, basic, inorganic, n.o.s.
<b>Hazard Class</b>	8
<b>Packing Group</b>	II
<b>Reportable Quality</b>	Potassium Hydroxide, RQ kg = 1055.81
<b>Description</b>	UN3266, Corrosive Liquid, basic, inorganic, n.o.s, (Potassium Hydroxide), 8,II, RQ
<b>Emergency Response Guide Number</b>	154

## 15. REGULATORY INFORMATION

### International Inventories

<b>TSCA</b>	Complies
<b>DSL/NDSL</b>	Complies

### Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
 DSL/NDSL – Canadian Domestic Substances List/Non-Domestic Substances List

### U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does contain 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	7.1	1.0

### SARA 311/312 Hazard Categories

<b>Acute Health Hazard</b>	Yes
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	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	CWA Hazardous
Potassium Hydroxide	1000 lb.	*

### CERCLA

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

Chemical Name	Hazardous Substance RQs	RQ
Potassium Hydroxide	1000 lb.	RQ 1000 lb. final RQ

### U.S. State Regulations

#### California Proposition 65

This product contains no 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
Potassium 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>HMS</u></b>	Health Hazard 3	Flammability 1	Physical Hazard 0	Personal Protection B

Prepared By	Sunburst Chemical 220 West 86 <sup>th</sup> Street Bloomington, MN 55420 952-884-3144
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**General Disclaimer**

The information provided on this SDS 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**