

**PRODUCT NAME:** ABRO All Surface Cleaner - Grand  
Foam 2000  
**PRODUCT NUMBER/SIZE:** ASC-016-R / 16 oz.

Rev Date: 8/07/2015

**SECTION 1**  
**Identification of the Substance and of the Company/Undertaking**

**MANUFACTURER'S NAME:** ABRO INDUSTRIES, INC.  
**ADDRESS:** 3580 Blackthorn Court  
South Bend, IN 46628  
USA  
**PRODUCT DESCRIPTION:** Foam Cleaner  
**COMPANY PHONE:** 574-232-8289  
**EMERGENCY 24-HR TELEPHONE:** Chemtrec: US/Canada 1-800-424-9300  
International +1-703-527-3887

**SECTION 2**  
**Hazards Identification**

**Classification:**

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

**Label Pictogram(s):**

None

**Signal Word:** None  
**Hazard Phrases:** No known significant effects or critical hazards.  
**Precautionary Phrases:** Not applicable  
**Response:** Not applicable  
**Storage / Disposal:** Not applicable  
**Other:** Keep out of reach of children.

**SECTION 3**  
**Composition/Information on Ingredients**

Substance/mixture: Mixture  
**CAS number/other identifiers:**  
**CAS number :** Not applicable.

Ingredient name	%	CAS number
Sodium hydrogencarbonate	1-5	-
Proprietary ingredient 1	1-5	-
2-Butoxyethanol	1-5	-

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## SECTION 4 First Aid Measures

**EYE CONTACT:** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

**SKIN CONTACT:** Flush contaminated skin with plenty of water. Get medical attention if symptoms occur.

**INHALATION:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

**INGESTION:** Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

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

#### Potential acute health effects

**Eye contact :** No known significant effects or critical hazards.

**Inhalation :** No known significant effects or critical hazards.

**Skin contact :** No known significant effects or critical hazards.

**Ingestion :** No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

**Eye contact :** No known significant effects or critical hazards.

**Inhalation:** No known significant effects or critical hazards.

**Skin contact:** No known significant effects or critical hazards.

**Ingestion:** No known significant effects or critical hazards.

### Indication of any immediate medical attention and special treatment needed

**Notes to physician :** Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments :** No specific treatment.

**Protection of first-aiders :** No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

## SECTION 5 Fire Fighting Measures

**Suitable Extinguishing Media:** Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media:** None known.

**Specific Hazards Arising from the Chemical:** No specific fire or explosion hazard.

### **Hazardous thermal decomposition products**

Decomposition products may include the following materials:

carbon dioxide  
carbon monoxide  
phosphorus oxides  
metal oxide/oxides

**Special protective actions for fire-fighters:** No special measures are required.

**Special protective equipment for fire-fighters:** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## SECTION 6 Accidental Release Measures

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

#### **For non-emergency personnel:**

No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

**For emergency responders :** If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

**Environmental precautions:** Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### **Methods and materials for containment and cleaning up**

Spill: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## SECTION 7 Handling and Storage

### **Precautions for safe handling**

**Protective measures:** Put on appropriate personal protective equipment (see Section 8).

**Advice on general occupational hygiene:** Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating,

drinking and smoking. See also Section 8 for additional information on hygiene measures. Remove contaminated clothing and protective equipment before entering eating areas.

**Conditions for safe storage, including any incompatibilities:** Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## SECTION 8 Exposure Controls/Personal Protection

### Control parameters Occupational exposure limits

Ingredient name	Exposure limits
2-Butoxyethanol	<b>ACGIH TLV (United States, 4/2014).</b> TWA: 20 ppm 8 hours. <b>NIOSH REL (United States, 10/2013). Absorbed through skin.</b> TWA: 24 mg/m <sup>3</sup> 10 hours. TWA: 5 ppm 10 hours. <b>OSHA PEL (United States, 2/2013). Absorbed through skin.</b> TWA: 240 mg/m <sup>3</sup> 8 hours. TWA: 50 ppm 8 hours.

**Appropriate engineering controls:** Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**Environmental exposure controls:** Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

### Individual protection measures

**Hygiene measures:** Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection:** Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

### Skin protection

**Hand protection:** Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Body protection:** Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Other skin protection:** Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection:** Use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on

known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

## SECTION 9 Physical and Chemical Properties

### **Appearance**

<b>Physical state</b>	Liquid
<b>Color</b>	Clear
<b>Odor</b>	Slight sassafras odor
<b>Odor threshold</b>	NA
<b>pH</b>	8.67 [Conc. (% w/w): 100%]
<b>Melting point</b>	NA
<b>Boiling point</b>	Not available
<b>Flash point</b>	Not available
<b>Evaporation rate</b>	NA
<b>Flammability (solid, gas)</b>	NA
<b>Lower and upper explosive (flammable) limits</b>	NA
<b>Vapor pressure</b>	NA
<b>Vapor density</b>	NA
<b>Relative density</b>	NA
<b>Solubility</b>	NA
<b>Partition coefficient: n-octanol/water</b>	NA
<b>Auto-ignition temperature</b>	NA
<b>Decomposition temperature</b>	NA
<b>Viscosity</b>	NA
<b>Volatility</b>	NA

## SECTION 10 Stability and Reactivity

### **Reactivity**

No specific test data related to reactivity available for this product or its ingredients.

### **Chemical stability**

The product is stable.

### **Possibility of Hazardous Reactions**

Under normal conditions of storage and use, hazardous reactions will not occur.

### **Conditions to avoid**

No specific data.

### **Incompatible materials**

Reactive or incompatible with the following materials: oxidizing materials.

### **Hazardous Decomposition Products**

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**SECTION 11**  
**Toxicological Information**

**Information on toxicological effects**

**Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Sodium hydrogencarbonate 2-Butoxyethanol	LD50 Oral LC50 Inhalation Vapor LD50 Dermal LD50 Oral	Rat Rat Rabbit Rat	4220 mg/kg 450 ppm 220 mg/kg 250 mg/kg	- 4 hours - -

**Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
Sodium hydrogencarbonate 2-Butoxyethanol	Eyes - Mild irritant Skin - Mild irritant	Rabbit Human	- -	0.5 minutes 100 mg 72 hours 30 mg Intermittent	- - -
	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-

**Sensitization**

There is no data available.

**Carcinogenicity Classification**

Product/ingredient name	OSHA	IARC	NTP	ACGIH	EPA	NIOSH
2-Butoxyethanol	-	3	-	A3	-	-

**Specific target organ toxicity (single exposure)**

There is no data available

**Specific target organ toxicity (repeated exposure)**

There is no data available

**Aspiration hazard**

There is no data available

**Information on the likely routes of exposure:** Dermal contact. Eye contact. Inhalation. Ingestion.

**Potential acute health effects**

**Eye contact :** No known significant effects or critical hazards.

**Inhalation :** No known significant effects or critical hazards.

**Skin contact :** No known significant effects or critical hazards.

**Ingestion :** No known significant effects or critical hazards.

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

**Eye contact :** No known significant effects or critical hazards.

**Inhalation** No known significant effects or critical hazards.

**Skin contact** No known significant effects or critical hazards.

**Ingestion** No known significant effects or critical hazards.

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

**Short term exposure**

**Potential immediate effects:** No known significant effects or critical hazards.

**Potential delayed effects :** No known significant effects or critical hazards.

**Long term exposure**

**Potential immediate effects:** No known significant effects or critical hazards.

**Potential delayed effects :** No known significant effects or critical hazards.

**Potential chronic health effects**

**General :** Causes damage to organs through prolonged or repeated exposure.

**Carcinogenicity :** May cause cancer. Risk of cancer depends on duration and level of exposure.

**Mutagenicity :** May cause genetic defects.

**Teratogenicity :** Suspected of damaging the unborn child.

**Developmental effects :** No known significant effects or critical hazards.

**Fertility effects :** Suspected of damaging fertility.

**Numerical measures of toxicity**

**Acute toxicity estimates**

Route	ATE value
Oral	11402.1 mg/kg
Dermal	11775.7 mg/kg
Inhalation (vapors)	588.8 mg/L

**SECTION 12**  
**Ecological Information**

**Toxicity**

Product/ingredient name	Result	Species	Exposure
Sodium hydrogencarbonate	Acute EC50 650000 µg/L Fresh water	Algae - Navicula seminulum	96 hours
	Acute LC50 767.87 mg/L Marine water	Crustaceans - Americamysis bahia	48 hours
2-Butoxyethanol	Acute LC50 7550 ppm Fresh water	Fish - Gambusia affinis - Adult	96 hours
	Chronic NOEC 576 mg/L Fresh water	Daphnia - Daphnia magna - Neonate	3 weeks
	Acute EC50 >1000 mg/L Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1000 mg/L Marine water	Crustaceans - Chaetogammarus marinus - Young	48 hours
	Acute LC50 1250000 µg/L Marine water	Fish - Menidia beryllina	96 hours

**Persistence and degradability**

There is no data available.

**Bioaccumulative potential**

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
2-Butoxyethanol	0.81	-	low

**Mobility in soil**

**Soil/water partition coefficient (K<sub>oc</sub>):** Not available.

**Other adverse effects :** No known significant effects or critical hazards.

**SECTION 13**  
**Disposal Considerations**

**Disposal methods:** The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of

untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14 Transport Information

Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (ocean, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport.

**U.S. DOT** UN/ID Number: Not Regulated  
Proper shipping name:  
Hazard class:  
Packing Group:  
Exceptions:  
Environmental Hazards:  
Transport in Bulk:  
Special Precautions:

**IMO/IMDG** UN/ID Number: Not Regulated  
Proper shipping name:  
Hazard class:  
Packing Group:  
Exceptions:  
Environmental Hazards:  
Transport in Bulk:  
Special Precautions:

**ICAO/IATA** UN/ID Number: Not Regulated  
Proper shipping name:  
Hazard Class:  
Packing Group:  
Exceptions:  
Environmental Hazards:  
Transport in Bulk:  
Special Precautions:

**Canada (TDG)** UN/ID Number: Not Regulated  
Proper shipping name:  
Hazard class:  
Packing Group:  
Exceptions:  
Environmental Hazards:  
Transport in Bulk:  
Special Precautions:

**Europe (ADR/RID)** UN/ID Number: Not Regulated  
Proper shipping name:  
Hazard class:  
Packing Group:



Exceptions:  
 Environmental Hazards:  
 Transport in Bulk:  
 Special Precautions:

**Special precautions for user:**

**Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** Not Available

**SECTION 15  
 Regulatory Information**

**U.S. Federal regulations:**

**TSCA 8(a) CDR Exempt/Partial exemption:** Not determined

**United States inventory (TSCA 8b):** Not determined.

**Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs):** Not listed

**Clean Air Act Section 602 Class I Substances:** Not listed

**Clean Air Act Section 602 Class II Substances:** Not listed

**DEA List I Chemicals (Precursor Chemicals):** Not listed

**SARA 302/304**

**Composition/information on ingredients**

No products were found.

**SARA 304 RQ :** Not applicable.

**SARA 311/312**

**Classification :** Immediate (acute) health hazard

**Composition/information on ingredients**

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Sodium hydrogencarbonate	1 - 5	No.	No.	No.	Yes.	No.
Proprietary ingredient 1	Proprietary	No.	No.	No.	Yes.	No.
2-Butoxyethanol	1 - 5	Yes.	No.	No.	Yes.	No.

**SARA 313**

	Product name	CAS number	%
<b>Form R - Reporting requirements</b>	2-Butoxyethanol	111-76-2	1 - 5
<b>Supplier notification</b>	2-Butoxyethanol	111-76-2	1 - 5

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

**State regulations**

<b>Massachusetts</b>	The following components are listed: 2-Butoxyethanol
<b>New York</b>	None of the components are listed.
<b>New Jersey</b>	The following components are listed: 2-Butoxyethanol
<b>Pennsylvania</b>	The following components are listed: 2-Butoxyethanol

**California Prop. 65**

No products were found.

**SECTION 16**  
**Other Information**

The supplier disclaims all expressed or implied warranties of merchantability or fitness for a specific use, with respect to the product or the information provided herein, except for conformance to contracted specifications. All information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency. Conditions of use are beyond our control, and therefore users are responsible for verifying the data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product. Users also assume all risks in regards to the publication or use of, or reliance upon, information contained herein.

This information relates only to the product designated herein, and does not relate to its use in combination with any other material or process.

**ABBREVIATIONS:**

NG="NOT GIVEN"	BT="BETWEEN"
<="LESS THAN"	>="GREATER THAN"
ND = Not Determined	NA = Not Applicable

**Key to abbreviations :** ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations