

PRODUCT NAME: ABRO Heavy Duty Power Degreaser
PRODUCT NUMBER/SIZE: PD-620 / 1 Gallon

Revision Date: 6/22/15

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: Cleaner/Degreaser
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:
Specific Target Organ Toxicity – repeated exposure Category 2

Label Pictogram(s):



Signal Word: Warning

Hazard Phrases: Harmful if swallowed. May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).

Precautionary Phrases: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist, spray, and vapors. Wash affected areas thoroughly after handling. Do not eat, drink or smoke when using this product. Wear personal protective equipment as required.

Response: If swallowed: Immediately call doctor/physician or poison center. If swallowed: rinse mouth. Do NOT induce vomiting. If inhaled: Remove person to fresh air and keep comfortable for breathing. If exposed or concerned: Get medical advice/attention.

Storage / Disposal: Keep in cool dry area. Dispose of contents/container, in a safe manner, to appropriate waste disposal facility, in accordance with local/regional/national/international regulations.

Other: Keep out of reach of children.

SECTION 3 Composition/Information on Ingredients

COMPONENTS	CAS Number	% by weight	PEL (OSHA)	TLV (ACGIH)
Water	7732-18-5	60-90	None	None
2-Butoxyethanol	1300-72-7	<10	50ppm	20ppm
Ethoxylated Alcohol	127087-87-0	<10	n/a	n/a
Sodium Hydroxide	1310-73-2	<5	2mg/m3	2mg/m3
Sodium Metasilicate Pentahydrate	6834-92-0	<5	n/a	n/a
Other Inert Ingredients	Proprietary Blend	<5	n/a	n/a
Dye/Colorant	Proprietary Blend	<1	n/a	n/a

SECTION 4 First Aid Measures

Eye contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
Skin contact	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention.
Inhalation	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek immediate medical advice. Allow the victim to rest. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
Ingestion	Get medical attention immediately. Call poison control center rinse mouth. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

NOTES TO PHYSICIAN: The principal toxic effects of ethylene glycol, when swallowed, are kidney damage and metabolic acidosis. The combination of metabolic acidosis, an osmol gap and oxalate crystals in the urine is evidence of ethylene glycol poisoning. Pulmonary edema with hypoxemia has been described in a number of patients following poisoning with ethylene glycol. Respiratory support with mechanical ventilation may be required. There may be cranial nerve involvement in the late stages of toxicity from swallowed ethylene glycol. In particular, effects have been reported involving the seventh, eighth, and ninth cranial nerves, presenting with bilateral facial paralysis, diminished hearing and dysphagia. Ethanol is antidotal and its early administration may block the formation of nephrotoxic metabolites of ethylene glycol in the liver. The objective is to rapidly achieve and maintain a blood ethanol level of approximately 100 mg/dl by giving a loading dose of ethanol followed by a maintenance dose. Intravenous administration of ethanol is the preferred route. Ethanol blood levels should be checked frequently. Hemodialysis may be required. 4-Methyl pyrazole (Fomepizole®), a potent inhibitor of alcohol dehydrogenase, has been used therapeutically to decrease the metabolic consequences of ethylene glycol poisoning. Fomepizole® is easier to use clinically than ethanol, does not cause CNS depression or hypoglycemia and requires less monitoring than ethanol. Additional therapeutic modalities which may decrease the adverse consequences of ethylene glycol metabolism are the administration of both thiamine and pyridoxine. As there are complicated and serious overdoses, we recommend you consult with the toxicologists at your poison control center.

SECTION 5 Fire Fighting Measures

Ignition temp:	Non-Flammable
Flammable limits (% by volume):	Non-Flammable
Flash Point:	Non-Flammable
Fire Extinguishing Agents:	According to the U.S. National Fire Protection Association Guide, use water fog, dry chemical, foam, or carbon dioxide. Water or foam may cause frothing. Use water to cool fire-exposed containers. If a leak or spill has not ignited, use water spray to disperse the vapors and to provide protection for persons attempting to stop the leak.
Explosion hazards:	For fires involving this material, do not enter any enclosed or confined space without self-contained breathing apparatus to protect against the hazardous effects of combustion products or oxygen deficiency.

SECTION 6 Accidental Release Measures

Environmental precautions:	Do not allow into open waterways and ground water systems. 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 to sewers, waterways, soil, or air.
Personal precautions:	(See section 8 – personal protection.)
Methods for Cleaning Up:	Dilute with water and rinse into sanitary sewer system or soak up with inert absorbent material.

SECTION 7 Handling and Storage

Handling	Keep container tightly closed. Ensure adequate ventilation. Keep out of reach of children.
Storage	Keep in cool dry area.

SECTION 8 Exposure Controls/Personal Protection

Occupational exposure limits

Ingredient name	Occupational exposure limits
2-butoxyethanol	TWA 50 ppm (240 mg/g ³)

While specific OELs for certain components may be shown in this section, other components may be present in any mist, vapor or dust produced. Therefore, the specific OELs may not be applicable to the product as a whole and are provided for guidance only.

Control Measures	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
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.
<u>Personal Protection</u>	
Eyes	Avoid contact with eyes. Safety glasses with side shields or chemical goggles.
Skin and body	Do not get on skin or clothing. Wear suitable protective clothing.
Respiratory	Use adequate ventilation. Do not breathe vapor or mist.
Hands	The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). Most gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application.

SECTION 9 Physical and Chemical Properties

Physical state	Liquid.
Color	Purple
Boiling point / Range	~210° F (98° C)
Vapor pressure(mmHg @ 25 deg. c)	18 mmHg @20° C; 23.5 mmHg @26° C
Density	8.5 lb/gal
Vapor density	N/A
pH of undiluted product	11.7 – 13.0
Solubility	Completely Soluble
Volatility	N/A
Evaporation	N/A
Viscosity	N/A

SECTION 10 Stability and Reactivity

Stability and reactivity	The product is stable.
Conditions to avoid	None known
Incompatibility with substances	Reactive or incompatible with the following materials: oxidizing materials and acids

Hazardous decomposition Products	Normal products of combustion - CO, CO ₂ ; Oxides of Phosphorous may occur.
Hazardous polymerization	Under normal conditions of storage and use, hazardous polymerization will not occur.
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.

SECTION 11 Toxicological Information

Acute toxicity	Oral LD ₅₀ (rat) > 5 g/kg body weight Dermal LD ₅₀ (rabbit) > 5 g/kg body weight Toxicity calculated from ingredients using OECD SERIES ON TESTING AND ASSESSMENT Number 33
Carcinogenicity	No ingredients are listed by OSHA, IARC, or NTP as known or suspected carcinogens.
Teratogenicity	See Other Information

SECTION 12 Ecological Information

Hazard to wild mammals:	Low, based on toxicology profile
Hazard to avian species:	Low, based on toxicology profile
Hazard to aquatic organisms:	Low, based on toxicology profile
Chemical Fate Information:	Readily Biodegradable per OECD 301D, Closed Bottle Test
Persistence/degradability	Inherently biodegradable
Other ecological Information	Miscible in water. Spills on water will disperse throughout the water phase. Unlikely to be harmful to aquatic organisms unless glycol concentration is high.

SECTION 13 Disposal Considerations

Appropriate method for disposal

Unused Product:	*Dilute with water to use concentration and dispose by sanitary sewer.
Used Product:	*This product can enter into clarifiers and oil/water separators. Used product may be hazardous depending on the cleaning application and resulting contaminants.

Empty Containers: *Triple-rinse with water and offer for recycling if available in your area. Otherwise, dispose as non-hazardous waste.

*Dispose of used or unused product, and empty containers in accordance with the local, State, Provincial, and Federal regulations for your location. Never dispose of used degreasing reinstates into lakes, streams, and open bodies of water or storm drains.

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: Not applicable
Special Precautions: None

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:

SECTION 15 Regulatory Information

All components are listed on: EINECS, TSCA, DSL and AICS Inventory.

No components listed under: Clean Air Act Section 112; Clean Water Act 307 & 311

SARA Title III: 2-butoxyethanol is subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 as Category N230 – Certain Glycol Ethers.

RCRA Status: Not a hazardous waste

CERCLA Status: No components listed

State Right To Know Lists:

2-butoxyethanol Illinois, Massachusetts, New Jersey, Pennsylvania, Rhode Island

	HMIS	NFPA
Health	2	1
Flammability	1	1
Physical Hazards	0	-
Instability	-	0
Specific Hazard	--	--

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 conformation 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