

PRODUCT NAME: ABRO Foaming Engine Degreaser
PRODUCT NUMBER/SIZE: DG-300-R

Revision Date: 10/31/2014

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: Engine 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:

Flammable Aerosol Category 1
Eye irritation Category 2A
Skin irritation Category 2
Aspiration Hazard Category 1
Specific target organ toxicity single exposure Category 3
Acute toxicity, Inhalation, Dermal - Category 4
Acute toxicity, Oral – Category 3

Label Pictogram(s):



Signal Word: DANGER

Hazard Phrases: Extremely flammable aerosol. Pressurized container: may burst if heated. May be fatal if swallowed and enters airways. Harmful if inhaled or in contact with skin. Causes serious eye irritation and skin irritation. May cause drowsiness or dizziness.

Precautionary Phrases: Keep away from and do not spray on open flames or other ignition sources. No smoking. Keep container tightly closed. Avoid breathing fumes. Do not pierce or burn, even after use. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear eye protection and protective gloves. Do not eat, drink or smoke while using this product.

Response: IF SWALLOWED: Do NOT induce vomiting. Rinse mouth. Immediately call a doctor. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN: Take off contaminated clothing and wash it before reuse. Wash with plenty of soap and water. Call a doctor and get medical attention if exposed, you feel unwell or if eye / skin irritation occurs

Storage / Disposal: Store locked up in a well-ventilated place. Keep container tightly closed. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Dispose of contents/ container in compliance with local and federal regulations.

Other: Keep out of reach of children. If medical advice is needed, have product container or label at hand. Read label before use.

**SECTION 3
Composition/Information on Ingredients**

Components	CAS Number	Percent by weight
NONYL PHENOL ETHOXYLATE 6 MOL	9016-45-9	5 %
AROMATIC PETROLEUM DISTILLATE	64742-95-6	4 %
2-BUTOXYETHANOL, GLYCOL ETHER EB	111-76-2	4 %
BUTANE	106-97-8	4 %
PROPANE	74-98-6	2 %
PETROLEUM DISTILLATE	64742-47-8	1 %

** Indicates ingredients that are subject to the reporting requirements of Section 313 of EPCRA and 40 CFR 372. Components of a blended material regulated under section 313 of SARA.

*** No toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 are present. ***

**SECTION 4
First Aid Measures**

First Aid Measures

Immediate Medical Attention:	Provide general supportive measures and treat symptomatically. Keep victim under observation.
Eyes	Wash immediately with large volumes of fresh water for at least 15 minutes. Get medical attention
Skin	Wipe off with towel. Wash with soap and water. Get medical attention if irritation persists.
Ingestion	DO NOT INDUCE VOMITING unless directed by a physician or poison control center. Get medical attention immediately. Not a likely route of exposure.
Inhalation	Remove to fresh air. Administer oxygen if needed. Apply artificial respiration if breathing has stopped. Get medical attention.

Signs & Symptoms Of Over Exposure: Inhalation of vapors can cause respiratory irritation, headache, nausea, fatigue, drowsiness, impaired coordination. Contact with skin may dry the skin. Prolonged contact may cause irritation. Liquid and vapors can irritate the eyes.

Special Treatment: There are no known medical conditions generally aggravated by exposure.

SECTION 5 Fire Fighting Measures

Extinguishing media Foam, alcohol foam, CO₂, Dry Chemical, Water Fog

Hazardous Combustion: Unknown

Protective Equipment and Precautions for firefighters: Water spray may be ineffective. Water may be used to cool containers to prevent pressure build-up and explosion when exposed to extreme heat. If water is used, fog nozzles preferred.

Wear goggles and self-contained breathing apparatus.

Closed containers may explode from internal pressure build-up when exposed to extreme heat and discharge contents. Liquid contents of container will not support combustion. Overexposure to decomposition products may cause a health hazard. Symptoms may not be readily apparent. Obtain medical attention.

Contents under pressure. Do not use near fire, sparks, or flame. Do not puncture or incinerate container. Exposure to temperatures above 120°F may cause container to burst.

Flammability per Flame Projection Test Not available.

SECTION 6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Avoid breathing vapors. Ventilate area. Remove all sources of ignition. Follow recommendations in section 8.

Methods/materials for containment and cleanup: Clean up area with absorbent material and place in closed containers for disposal. Dispose of in accordance with local, state, and federal regulations.

Environmental precautions: None.

SECTION 7 Handling and Storage

Precautions for Safe Handling Store and use in cool, dry, well-ventilated areas. Do not store above 120 F. Do not puncture or incinerate (burn) cans. Do not stick pin, nail or any other sharp object into opening on top of can. Do not spray in eyes. See product label for additional information.

Conditions for Safe Storage

Small pressurized containers of flammable products may be stored in areas suitable for ordinary combustibles with respect to construction, drainage, control of ignition sources, and ventilation except that they should not be stored in basements. Do not store at temperatures above 120 F.

**SECTION 8
Exposure Controls/Personal Protection**

Component	CAS #	OSHA PEL	ACGIH TLV
NONYL PHENOL ETHOXYLATE 6 MOL	9016-45-9	Not Established	Not Established
AROMATIC PETROLEUM DISTILLATE	64742-95-6	100 ppm	Not Established
2-BUTOXYETHANOL, GLYCOL ETHER EB	111-76-2	25 ppm	25 ppm (skin)
BUTANE	106-97-8	800 ppm	800 ppm
PROPANE	74-98-6	1000 ppm	Asphyxiant

Engineering Controls:

Ventilation sufficient to prevent inhalation of solvent vapors is required. General dilution and / or local exhaust ventilation in volumes or patterns to keep PEL/TLV of most hazardous ingredient below acceptable limit and LEL below stated limit.

Personal Protective Equipment:

- Skin:** Gloves are not required for normal use. Solvent resistant gloves are required for prolonged or repeated contact. Use of solvent resistant aprons or other clothing is recommended.
- Eyes:** Eye protection is not required under normal use. However, use of safety glasses with splash guards or full face shield is recommended.
- Respiratory:** In restricted areas, use approved chemical/mechanical filters designed to remove a combination of particles and vapor. In confined areas, use approved air line type respirator or hood. Self-contained breathing apparatus is required for vapor concentrations above PEL/TLV limits.

**SECTION 9
Physical and Chemical Properties**

Appearance and Physical State:	Aerosol.
Odor:	Not Available.
Odor Threshold:	Not Available.
pH:	Not Applicable.
Melting Point/Freezing Point:	Not Available.
Initial boiling point & boiling range:	Between -44 F and 410 F
Flash Point:	-156 F (estimated)
Evaporation rate:	Not Available.
Flammability (solid, gas)	Not Available.
Upper/lower flammability or explosive limits	Between 0.7 and 12.7
Vapor pressure	Not Available.
Vapor density	Not Available.
Relative density / Specific gravity	0.94
Solubility	Completely soluble in water

Partition Coefficient n-Octanol/Water	Not Available.
Auto-ignition Temperature:	Not Available.
Decomposition Temperature:	Not Available.
Viscosity:	Not Available.
%-VOC Content:	Not Available.
CARB VOC Category/Standard (%)	Not Available.
OTC Model Rule Category/Standard (%)	Not Available.
US EPA Cons Prod Category/Standard (%)	Not Available.

SECTION 10 Stability and Reactivity

Reactivity	Product is non-reactive under normal conditions of use.
Chemical Stability:	Product is stable
Possibility of hazardous reactions:	None known.
Conditions to avoid (e.g. static discharge, shock or vibration):	Application to hot surfaces, storage above 120 F, exposure to open flame.
Incompatibilities:	Oxidizing agents
Hazardous decomposition products:	May produce fumes when heated to decomposition. Fumes may contain carbon monoxide.
Hazardous polymerization:	Will not occur

SECTION 11 Toxicological Information

Likely Routes of Exposure:	Skin or eye contact and inhalation
Symptoms:	May cause respiratory irritation, headache, nausea, fatigue, drowsiness, impaired coordination, central nervous system depression or heart arrhythmia. Narcotic in high concentrations. Contact may dry the skin. Prolonged contact may cause moderate irritation. Not easily absorbed onto skin. Solvent action can defat the skin, causing the skin to crack, leading to dermatitis. Liquid or vapor in the eyes can cause moderate to severe irritation. Ingestion is not a likely route of exposure. Do not induce vomiting.
Delayed and Immediate Effects:	No information available.
Chronic Effects:	No information available.
Toxicity Measures:	No information available.
NTP Carcinogen:	No.
IARC Carcinogen:	No.
OSHA Carcinogen:	No.

SECTION 12 Ecological Information

Ecotoxicity:	No information available.
Persistence and Degradability:	No information available.
Bioaccumulation Potential:	No information available.
Mobility in Soil:	No information available.
Other Adverse Effects:	No information available.

SECTION 13 Disposal Considerations

Storage and Disposal	Use and store in cool, dry, well-ventilated areas. Keep away from heat, sparks and flame. Do not puncture or incinerate (burn) cans. Do not stick pin, nail or any other sharp object into opening on top of can. Do not spray in eyes. See product label for additional information.
Waste Disposal Method:	Dispose of in accordance with all applicable local, state and federal regulations. Before attempting clean up, refer to other sections of this SDS for hazard caution information.

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:	UN1950
	Proper shipping name:	Aerosols
	Hazard class:	2.1
	Packing Group:	None
	Exceptions:	May be shipped as a limited quantity or consumer commodity
	Environmental Hazards:	No
	Transport in Bulk:	Not Applicable.
Special Precautions:	ERG#126	
IMO/IMDG	UN/ID Number:	UN1950
	Proper shipping name:	Aerosols
	Hazard class:	2.1
	Packing Group:	None
	Exceptions:	May be shipped as a limited quantity
	Environmental Hazards:	No
	Transport in Bulk:	Not Applicable
Special Precautions:	EmS F-D, S-U	

ICAO/IATA UN/ID Number: UN1950
 Proper shipping name: Aerosols, flammable
 Hazard Class: 2.1
 Packing Group: None
 Exceptions: May be shipped as a limited quantity or reclassified as ID8000
 Environmental Hazards: No
 Transport in Bulk: Not Applicable
 Special Precautions: None

Canada (TDG) UN/ID Number: UN1950
 Proper shipping name: Aerosols, flammable
 Hazard class: 2.1
 Packing Group: None
 Exceptions: May be shipped as a limited quantity
 Environmental Hazards: No
 Transport in Bulk: Not Applicable
 Special Precautions: ERG#126

SECTION 15
Regulatory Information

All ingredients are either listed on the TSCA Inventory or are exempt.

HMIS Codes: H-2 F-2 R-0

SECTION 16
Other Information

We believe all information given is accurate. It is offered in good faith but without guarantee. Since conditions of use are beyond our control, user assumes all responsibility and risk.

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