

PRODUCT NAME: ABRO Engine Degreaser
PRODUCT NUMBER/SIZE: DG-450-R

Revision Date: 5/12/15

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

MANUFACTURER'S NAME: ABRO INDUSTRIES, INC.
ADDRESS: 3580 Blackthorn Drive
South Bend, IN 46628
PRODUCT DESCRIPTION: Engine Degreaser
COMPANY PHONE: 574-232-8289
EMERGENCY 24-HR TELEPHONE: Chemtrec 800-424-9300/703-527-3887

SECTION 2 Hazards Identification

Classification:

Non-Flammable Aerosol – Category 3
Skin Corrosion/Irritation – Category 2
Eye Damage/Irritation – Category 2B
Carcinogenicity – Category 2
Specific Target Organ Toxicity (Single Exposure) – Category 3 (respiratory irritation, narcosis)
Aspiration Hazard - Category 1

Label Pictogram(s):



Signal Word: DANGER

Hazard Phrases: Pressurized container: may burst if heated. Causes skin and eye irritation. Suspected of causing cancer. May cause respiratory irritation and drowsiness or dizziness. May be fatal if swallowed and enters airways.

Precautionary Phrases: Keep away from heat, sparks, open flames, hot surfaces, sunlight and temperatures exceeding 50°C/122°F. No smoking. Do not pierce or burn, even after use. Wear protective gloves and clothing and any personal protective equipment as required. Wash hands and forearms thoroughly after handling. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing spray. Use only outdoors or in a well-ventilated area. Keep out of reach of children. If medical advice is needed, have product container or label at hand. Read label before use.

Response: If on skin: wash with plenty of soap and water. Take off all contaminated clothing and wash before reuse. If in eyes: rinse cautiously with water for several

minutes. Remove contact lenses if present and easy to do so. Continue rinsing. If exposed or concerned, you feel unwell, or if eye or skin irritation occurs or persists, get medical attention. If inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing. If swallowed, immediately call a doctor. Do NOT induce vomiting.

Storage / Disposal:

Store in a well-ventilated place. Keep container cool, tightly closed and locked up. Dispose of contents in accordance with local, national and international regulations.

Other:

Keep out of reach of children.

**SECTION 3
Composition/Information on Ingredients**

| COMPONENTS | CAS Number | Percent by weight |
|---------------------------------|-------------------|--------------------------|
| Kerosene | 8008-20-6 | 0.1-2.5 |
| Diesel Oil | 68334-30-5 | 1-3 |
| Ethylene glycol Monobutyl Ether | 111-76-2 | 8-10 |
| Antiseptic | None | 0.1-0.5 |
| Surfactant | None | 10-15 |
| Deionized Water | None | 55-65 |
| LPG | 68476-85-7 | 10-15 |

**SECTION 4
First Aid Measures**

EYE CONTACT: Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

SKIN CONTACT: Immediately flush skin with plenty of water. Remove clothing. Get medical attention immediately. Wash clothing separately before reuse.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

INGESTION: Get medical attention immediately. If swallowed, do NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

**SECTION 5
Fire Fighting Measures**

Flash Point: >20°C
 Flash Point Method: closed cup test
 Burning Rate: not determined
 Autoignition Temperature: >400 °C
 Lower Flammable Limit (LFL): 10-12%
 Upper Flammable Limit (UFL): 25-30%
 Flammability Classification: not determined

Extinguishing media: Dry chemical, foam, carbon dioxide, sand. Water may be an ineffective extinguishing medium.

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| General Fire Hazards: | This product is combustible at high temperatures. Toxic fumes, gases or vapors may evolve on burning. |
| Hazardous Combustion Products: | Carbon monoxide and carbon dioxide. |
| Fire-Fighting Equipment/Instructions: | Use water spray to cool fire-exposed containers and as a protective screen. Wear full set of protective equipment including chemical goggles and gloves. |

SECTION 6 Accidental Release Measures

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| Containment Procedures: | Contain the discharge material. Eliminate all sources of ignition or flammables that may come into contact with a spill of this material. |
| Clean-Up Procedures: | Attempt to reclaim the free product, if this is possible. If molten product spilled, solidify and recover. |
| Evacuation Procedures: | Isolate area. Keep unnecessary personnel away. |
| Special Instructions: | Avoid inhalation of fumes from molten product. Avoid skin contact with molten resins. Wear appropriate protective equipment and clothing during clean-up. Do not allow the spilled product to enter public drainage systems or open water courses. |

SECTION 7 Handling and Storage

Procedures for Handling: Avoid breathing fumes if this product is used at high temperatures. Keep away from potential sources of ignition. Wash hands after handling and before eating.

Recommended Storage Methods: Keep the container tightly closed and in a cool, well-ventilated place. Store away from strong oxidizers. Do not store this material in open and unlabeled containers.

SECTION 8 Exposure Controls/Personal Protection

Exposure Guidelines:

- A. General Product Information - If oil mists are generated, observe the OSHA exposure limit of 5 mg/m³.
- B. Component Exposure Limits - No ACGIH, NIOSH or OSHA exposure guidelines listed for the product's components.

Engineering Controls:

Use general ventilation and use local exhaust, where possible, in confined or enclosed spaces.

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| Eye / Face Protection: | Wear safety goggles or face shield when working with melted material. |
| Skin Protection: | Chemically resistant gloves with thermal protection when working with melted paraffin. |
| Respiratory Protection: | Under normal conditions, respirator is not normally required. |
| General: | Use good industrial hygiene practices. |

SECTION 9 Physical and Chemical Properties

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| Physical State: | Emulsion |
| Appearance: | White |
| Odor: | Petroleum |
| Odor Threshold: | Not Available |
| Vapor Pressure: | <500kpa |
| Vapor Density (Air=1): | 1.5-2.0 |
| Specific Gravity (H2O=1) | 0.75-0.95 |
| Water Solubility: | Part Soluble |
| Boiling Point: | >70°C |
| Melting Point: | <0°C |
| % Volatile: | 20-30 |
| Evaporation Rate: | Slow |
| pH: | Not Determined |

SECTION 10 Stability and Reactivity

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| Chemical Stability: | Stable. |
| Hazardous Polymerization: | Hazard polymerization will not occur. |
| Chemical Incompatibilities: | Strong oxidizing agents (peroxides, chlorine, strong acids). |
| Conditions to Avoid (Stability): | Avoid excessive heat and all sources of ignition. |
| Hazardous decomposition products: | Carbon dioxide, carbon monoxide. |

SECTION 11 Toxicological Information

Acute Toxicity / Target Organ Information:

A. General Product / Component Information - This material is typically inert. Paraffin fumes are a result of overheating product. Fumes are known to be mildly irritating to the nose, throat, and eyes.

B. Component LD50 / LC50 - No data available for product.

Epidemiology: No data available for product.

Carcinogenicity:

A. General Product / Component Information - Not listed by ACGIH, IARC, NIOSH, NTP or OSHA.

B. Component Carcinogenicity Listings - None of this product's components are listed by ACGIH, IARC, NIOSH, NTP or OSHA.

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| Teratogenicity / Reproductive Effects: | No data available for the product as a whole. |
| Neurotoxicity: | No data available for the product as a whole. |
| Mutagenicity: | No data available on this product as a whole. |
| Other Information: | No other information available. |

SECTION 12 Ecological Information

Ecotoxicity: No information is available on ecotoxicity of this product. Keep product out of sewers and waterways.

Environmental Fate: No information is available.

SECTION 13 Disposal Considerations

U.S. EPA Waste Number & Descriptions:

A. General Product Information - Product as shipped does not meet the definition or characteristics of a hazardous waste.

B. Component Waste Numbers - No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions:

Incinerate the material under controlled conditions in an approved incinerator.

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.

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| 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 to ID8000 |
| | Environmental Hazards: | No |
| | Transport in Bulk: | Not Applicable |
| | Special Precautions: | None |

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|-------------------------|------------------------|--------------------------------------|
| 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

U.S. Federal Regulatory Information:

A. General Product Information - All components of this product are listed on the U.S. EPA TSCA Inventory.

B. Component Information - None of this product's components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) or CERCLA (40 CFR 302.4).

State Regulations:

A. General Product Information - No components require labeling under California Proposition 65.

B. Component Information - None of this product's components are listed on the state lists from CA, FL, MA, MN, NJ, or PA.

Other Regulations:

A. General Product Information - All known (non-proprietary) components of this product are listed on the EINECS inventory of existing chemicals.

B. Component Information - None of this product's components are listed on the Canadian Controlled Product Ingredient Disclosure List.

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