

**PRODUCT NAME:** ABRO Motor Flush  
**PRODUCT NUMBER/SIZE:** MF-500-AM-RE

**Revision Date:** 2/19/2017

## 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 USA  
**PRODUCT DESCRIPTION:** Motor Flush  
**COMPANY PHONE:** 574-232-8289  
**EMERGENCY 24-HR TELEPHONE:** Chemtrec 800-424-9300 / 703-527-3887

## SECTION 2 Hazards Identification

**Classification:**

Flammable liquid (Category 3)  
Skin irritation (Category 2)  
Specific target organ toxicity - single exposure (Category 3), Narcotic Effects  
Aspiration hazard (Category 1)  
Acute aquatic toxicity (Category 2)

**Label Pictogram(s):**



**Signal Word:** DANGER

**Hazard Phrases:** May be fatal if swallowed and enters airways. Flammable liquid and vapor. Take precautionary measures against static discharge. Causes skin irritation. May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects.

**Precautionary Phrases:** Wash thoroughly after handling. Wear protective gloves. Avoid release to the environment. Avoid breathing fumes and use only outdoors or in well ventilated areas. Keep container tightly closed. Use non-sparking tools and prevent against static discharge.

**Response:** IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. IF ON SKIN take off immediately all contaminated clothing and wash with plenty of soap and water. If skin irritation occurs, get medical attention. Take off contaminated clothing and wash before reuse. IF INHALED: remove victim to fresh air and keep at rest in a position comfortable for breathing.

Call a doctor if you feel unwell. In case of fire, use dry chemical, foam carbon dioxide for extinction.

**Storage / Disposal:** Keep container tightly closed and cool. Store locked up in a well-ventilated place. Dispose of contents/container to an approved waste disposal plant.

**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
Kerosene	8008-20-6	60-80%
Calcium petroleum sulfonate	61789-86-4	2-8%
Triethanolamine	102-71-6	1-5%
Polyisobutylene-bis-succinimide	None	2-12%
Butylcellosolve	111-76-2	1-5%

### SECTION 4 First Aid Measures

#### First Aid Measures

<b>Immediate Medical Attention:</b>	Treat symptomatically. Vapors are irritating to the eyes and respiratory tract. Vapors may cause flash fire or explosion. Primary routes of entry are skin contact, inhalation, ingestion and eye contact.
<b>Eyes</b>	Immediately flush eyes with plenty of water. Get medical attention if irritation persists.
<b>Skin</b>	Immediately flush skin with plenty of water. Remove clothing. Get medical attention immediately. Wash clothing separately before reuse.
<b>Ingestion</b>	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.
<b>Inhalation</b>	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.
<b>Signs &amp; Symptoms Of Over Exposure:</b>	Liquid, aerosols and vapors of this product are irritating and can cause pain, tearing, reddening and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes. Prolonged or repeated contact can result in defeating and drying of the skin which may result in skin irritation and dermatitis (rash). Headaches, dizziness, nausea, decreased blood pressure, changes in heart rate and cyanosis may result from over-exposure to vapor or skin exposure. Prolonged inhalation may be harmful. This material may be harmful or fatal if swallowed. Corrosive and may cause severe and permanent damage to mouth, throat and stomach. Overexposure may cause nervous system damage. Overexposure may cause lung damage. Overexposure may cause kidney damage.

**Special Treatment:** Provide general supportive measures and treat symptomatically.

## SECTION 5 Fire Fighting Measures

<b>Extinguishing media</b>	Dry chemical, foam, carbon dioxide, sand. Water may be an ineffective extinguishing medium.
<b>Hazardous Combustion:</b>	This product is combustible at high temperatures. Toxic fumes, gases or vapors may evolve on burning. These may include carbon monoxide and carbon dioxide.
<b>Protective Equipment and Precautions for firefighters:</b>	Use water spray to cool fire-exposed containers and as a protective screen. Wear full set of protective equipment including chemical goggles and gloves.
<b>Flammability per Flame Projection Test</b>	Not available.

## SECTION 6 Accidental Release Measures

<b>Personal precautions, protective equipment and emergency procedures:</b>	Wear appropriate protective equipment and clothing during clean-up. Do not allow the spilled product to enter public drainage systems or open water courses.
<b>Methods/materials for containment and cleanup:</b>	Contain the discharge material. Eliminate all sources of ignition or flammables that may come into contact with a spill of this material. Attempt to reclaim the free product, if this is possible.
<b>Environmental precautions:</b>	Do not allow the spilled product to enter public drainage systems or open water courses.

## SECTION 7 Handling and Storage

<b>Precautions for Safe Handling</b>	Avoid breathing fumes if this product is used at high temperatures. Keep away from potential sources of ignition. Wash hands thoroughly after handling and before eating.
<b>Conditions for Safe Storage</b>	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

<b>Exposure Guidelines:</b>	If oil mists are generated, observe the OSHA exposure limit of 5 mg/m <sup>3</sup> . No ACGIH, NIOSH or OSHA exposure guidelines listed for the products components.
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**Engineering Controls:** Use general ventilation and use local exhaust, where possible, in confined or enclosed spaces. Use good industrial hygiene practices.

**Personal Protective Equipment:**

**Skin** Chemically resistant gloves with thermal protection.

**Eyes** Wear safety goggles or face shield

**Respiratory** Under normal conditions, respirator is not normally required.

## SECTION 9 Physical and Chemical Properties

<b>Appearance and Physical State</b>	Light pink liquid
<b>Odor</b>	Ketone smell
<b>Odor Threshold</b>	Not available.
<b>pH</b>	5.5
<b>Melting Point/Freezing Point</b>	Not available/
<b>Initial boiling point &amp; boiling range</b>	> 75°C
<b>Flash Point:</b>	> -10°C (open cup test)
<b>Evaporation rate</b>	Slow
<b>Flammability</b>	Flammable liquid
<b>Upper/lower flammability or explosive limits</b>	1.81-5% (LFL) 11.5-27% (UFL)
<b>Vapor pressure</b>	n/a
<b>Vapor density</b>	2.0-3.5
<b>Relative density / Specific gravity</b>	0.9-1.0
<b>Solubility</b>	Part soluble
<b>Partition Coefficient n-Octanol/Water</b>	Not available.
<b>Auto-ignition Temperature</b>	> 350°C
<b>Decomposition Temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>%-VOC Content</b>	40-60%

## SECTION 10 Stability and Reactivity

<b>Reactivity</b>	Product is non-reactive under normal conditions of use.
<b>Chemical Stability:</b>	Stable
<b>Possibility of hazardous reactions:</b>	Not available.
<b>Conditions to avoid (e.g. static discharge, shock or vibration):</b>	Avoid excessive heat and all sources of ignition.
<b>Incompatibilities:</b>	Strong oxidizing agents, strong acids and strong base.
<b>Hazardous decomposition products:</b>	Carbon dioxide, carbon monoxide.
<b>Hazardous polymerization:</b>	Will not occur

## SECTION 11 Toxicological Information

<b>Toxicity Measures:</b> <b>Tetrachloroethylene</b>	This material is typically inert. There is no data available for this product as a whole.
<b>Chronic Effects:</b>	No data available for the product as a whole.
<b>NTP Carcinogen:</b>	Not listed.
<b>IARC Carcinogen:</b>	Not listed.
<b>OSHA Carcinogen:</b>	Not listed.
<b>Teratogenicity:</b>	No data available for the product as a whole.
<b>Reproductive Effects:</b>	No data available for the product as a whole.
<b>Mutagenicity:</b>	No data available for the product as a whole.
<b>Other Information</b>	No data available for the product as a whole.

## SECTION 12 Ecological Information

<b>Ecotoxicity:</b>	No information is available. Keep product out of sewers and waterways.
<b>Persistence and Degradability:</b>	No information is available.
<b>Bioaccumulation Potential:</b>	No information is available.
<b>Mobility in Soil:</b>	No information is available.
<b>Other Adverse Effects:</b>	No information is available.

## SECTION 13 Disposal Considerations

<b>Storage and Disposal</b>	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. Keep out of reach of children.
<b>Waste Disposal Method:</b>	Product as shipped does not meet the definition or characteristics of a hazardous waste. No EPA waste numbers are applicable for this product's components. 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.

<b>U.S. DOT</b>	UN/ID Number:	UN1223
	Proper shipping name:	Kerosene solution
	Hazard class:	3
	Packing Group:	III

Exceptions: May be shipped as a limited quantity  
Environmental Hazards: None  
Transport in Bulk: Not Applicable.  
Special Precautions: ERG#128

**IMO/IMDG** UN/ID Number: UN1223  
Proper shipping name: Kerosene solution  
Hazard class: 3  
Packing Group: III  
Exceptions: May be shipped as a limited quantity  
Environmental Hazards: None (not a marine pollutant under IMDG)  
Transport in Bulk: Not Applicable  
Special Precautions: EmS F-E, S-E

**ICAO/IATA** UN/ID Number: UN1223  
Proper shipping name: Kerosene solution  
Hazard Class: 3  
Packing Group: III  
Exceptions: May be shipped as a limited quantity  
Environmental Hazards: None  
Transport in Bulk: Not Applicable  
Special Precautions: None

**Canada (TDG)** UN/ID Number: UN1223  
Proper shipping name: Kerosene solution  
Hazard class: 3  
Packing Group: III  
Exceptions: May be reclassified as a limited quantity.  
Environmental Hazards: None  
Transport in Bulk: Not Applicable  
Special Precautions: ERG#128

## SECTION 15 Regulatory Information

All components of this product are listed on the US EPA TSCA Inventory. None of the components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA 313 (40 CFR 372.65) or CERCLA (40 CFR 302.4). No components require labeling under California Proposition 65. None of the product components are listed on the state lists from CA, FL, MA, MN, NJ or PA. All known (non-proprietary) components of this product are listed on the EINECS inventory of existing chemicals. None of this product's components are listed on the Canadian Controlled Product Ingredient Disclosure List.

## 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.

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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

*This information is intended to provide interpretative and authoritative information in regard to the subject matter covered as a service to our clients and has been answered to the best of our ability based on the information provided to us. We do not guarantee the accuracy or completeness of any such interpretation or information, however, nor do we warrant that compliance with any advice we provide will guarantee compliance with any legal or regulatory requirements. Our statements or opinions do not convey legal interpretation and government authorities or legal counsel should be contacted for such a response.*