

PRODUCT NAME: ABRO Russian Smoke Stop
PRODUCT NUMBER/SIZE: SS-510-R / 12 oz.

Rev Date: 5/18/2015

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: Fuel Additive
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:
Combustible Liquid – Category 4

Label Pictogram(s):
None required.

Signal Word: WARNING

Hazard Phrases: Combustible liquid.

Precautionary Phrases: Keep away from flames and hot surfaces – no smoking. Wear protective gloves, eye and face protection.

Response: In case of fire, use dry chemical, CO₂, water spray (FOG) or foam for extinction.

Storage / Disposal: Store in a well-ventilated place. Keep cool. Dispose of in accordance with local, regional, national and international regulations.

SECTION 3 Composition/Information on Ingredients

COMPONENTS	CAS Number	Percent by weight
Petroleum Distillates, Solvent De-waxed Light Paraffinic	64742-56-9	95-100 %
Ethylene Propylene Diene M-Class Polymer	25038-36-2	1-5 %

This product may be regulated, have exposure limits or other information identified as the following: (See Section 8)

SECTION 4 First Aid Measures

- General Information:** Amber liquid with a hydrocarbon odor. May cause skin, eye and respiratory tract irritation. Combustible liquid and vapor. Avoid breathing dust/fume/gas/mist/vapors/spray. Keep container tightly closed. Use only with adequate ventilation. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
- Eye Contact:** Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
- Skin Contact:** In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.
- Inhalation:** Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
- Ingestion:** DO NOT INDUCE VOMITING. If conscious, rinse out mouth with water. Get medical attention immediately.
- Symptoms Or Effects:** May cause eye, skin and respiratory tract irritation.

Recommendations for Immediate Medical Care or Special Treatment: There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and clinical conditions. A serious potential effect is aspiration pneumonitis, which may lead to non-cardiogenic pulmonary edema. The patient should be observed for signs of ling injury if aspiration is suspected. Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product

SECTION 5 Fire Fighting Measures

Recommended Extinguishing Media: Use dry chemical, CO₂, water spray (FOG) or foam

Unusual Or Specific Fire And Explosion Hazards: Elevated temperatures can lead to the formation of irritating fumes and vapors. Decomposition products may include the following materials: carbon dioxide, carbon monoxide and hydrocarbons.

Firefighting Instructions and Protective Equipment: 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: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch

or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Emergency Procedures: 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.

Methods and Materials For Containment: Stop leak if without risk.

Cleanup Procedures: Move containers from spill area. Approach release from upwind. Absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

SECTION 7 Handling and Storage

Storage Recommendations: Store in accordance with local regulations. Store in a segregated and approved area. Keep in the original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials. Do not store in unlabeled containers. Store and use away from heat, sparks, open flame or any other ignition source. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers that retain product residue may be hazardous. Do not reuse container.

Handling Precautions: 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. Remove contaminated clothing and protective equipment before entering eating areas. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Use non-sparking tools.

Harmful or Fatal if Swallowed. Contains petroleum distillates. Avoid eye contact. Avoid contact with skin or clothing. Avoid breathing vapors. Use with adequate ventilation. Wash exposed skin thoroughly with soap and water after use. Combustible Liquid. Keep container away from heat, sparks, flames and other sources of ignition. Keep container closed when not in use. Store in a cool, dry area away from heat, oxidizers, and all sources of ignition. Empty containers retain product residue. Do not reuse empty containers.

SECTION 8 Exposure Controls/Personal Protection

EXPOSURE LIMITS:

Ingredient	ACGIH TLV	OSHA PEL	NIOSH REL
Petroleum Distillates	TWA: N/A ppm TWA: 5 mg/m ³ STEL: 15 ppm STEL: N/A mg/m ³	TWA: N/A ppm TWA: 5 mg/m ³ STEL: N/A ppm STEL: N/A mg/m ³	TWA: N/A ppm TWA: N/A mg/m ³ STEL: N/A ppm STEL: N/A mg/m ³

Engineering Controls: Material should be handled in enclosed vessels and equipment. Use only in 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.

General Hygiene: 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.

Recommended Personal Protective Measures:

Respiratory: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicated this is necessary. Respirator selection must be based on known or anticipated exposure levels.

Eye/Face: Chemical goggles or face shield.

Skin/Body: Chemical resistant, impervious gloves complying with an approved standard should be worn at all times. Coveralls, apron, and boots as necessary to minimize contact

SECTION 9 Physical and Chemical Properties

Appearance:	Heavy amber liquid.
Upper/lower flammability or explosive limits:	No data available.
Odor:	Hydrocarbon
Vapor pressure:	Not determined.
Odor threshold:	No information available.
Vapor density:	No information available.
pH:	No information available.
Relative density:	7.2 lbs./gal.
Specific gravity:	0.83-0.87 g/cc
Melting point/freezing point:	No information available.
Solubility:	No soluble in water.
Initial boiling point and boiling range:	No information available.
Flash point:	> 142 °F
Evaporation rate:	No information available.
Flammability (solid, gas):	No information available.
Upper/lower flammability or explosive limits:	No information available.
Vapor pressure:	Not determined.
Vapor density:	No information available.
Partition coefficient: n-octanol/water:	No information available.
Auto-ignition temperature:	No information available.
Decomposition temperature:	No information available.
Viscosity:	380-520 cSt (100°C).

Other Information:

Pour Point: < 15° F

SECTION 10 Stability and Reactivity

CHEMICAL STABILITY: Stable under normal conditions

Reactivity: No information available.

Possibility of Hazardous Reactions / Polymerization:

No polymerization.

Chemical Incompatibilities: Strong acids and oxidizing materials.

Condition To Avoid: High temperatures.

Hazardous Decomposition Products: Smoke, carbon monoxide, carbon dioxide, hydrocarbons and other products of incomplete combustion.

**SECTION 11
Toxicological Information**

Routes of Exposure: Dermal, Inhalation, Ingestion

Delayed, Immediate and Chronic Effects: May cause respiratory tract irritation. If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract. May cause eye irritation. Vapors formed from heating may cause eye irritation. May cause skin irritation. Prolonged or repeated direct exposure to the skin may result in symptoms of irritation and redness. Not expected to cause skin or respiratory sensitization.

Component Analysis – LD₅₀ / LC₅₀

Acute Toxicity Estimate (ATE) Values for Product:			
Inhalation LC ₅₀ Rat	Not established (NE)	mg/L	1 HR
Oral LD ₅₀ Rat	NE	mg/kg	
Dermal LD ₅₀ Rabbit	NE	mg/kg	

Chronic Exposure

Target Organ Effects No data available to indicate product or components present at greater than 1% are chronic health hazards.

Carcinogenicity The components greater than 0.1% are not listed as carcinogenic by IARC, NTP, ACGIH, or OSHA.

Mutagenicity No data available to indicate product or any components present at greater than .1% are mutagenic or genotoxic.

Reproductive Toxicity No data available to indicate either product or components present at greater than .1% may cause reproductive toxicity.

Teratogenicity No data available to indicate product or any components contained at greater than .1% may cause birth defects.

**SECTION 12
Ecological Information**

Component Analysis- Ecotoxicity – Aquatic Life

Duration/Test/Species	Concentration/Conditions
96-h/LC50/Rainbow Trout	Not Available mg/L
96-h/LC50/Fathead Minnow	Not Available mg/L
96-h/LC50/Fathead Minnow	Not Available Mg/L

Acute Toxicity	May be toxic to animal/aquatic life.
Chronic Toxicity	Do not dispose of in waterways or wetlands.
Degradability	Not determined
Bioaccumulation	Not determined
Soil Mobility	Not determined
Photodegradation	Yes
Partition Coefficient (log K_{ow})	Not determined
Stability in Water	Stable to hydrolysis

SECTION 13 Disposal Considerations

RECOMMENDED DISPOSAL PROCEDURES: The generation of waste should be avoided or minimized wherever possible. Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.

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 This product is not regulated as a DOT hazardous material when transported in non-bulk packaging.

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

IMO/IMDG This product is not regulated as a dangerous good for transport by vessel.

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

ICAO/IATA This product is not regulated as a dangerous good for transport by aircraft.

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

Canada (TDG) This product is not regulated as a dangerous good in Canada.

UN/ID Number: Not applicable
Proper shipping name: Not applicable

Hazard class: Not applicable
 Packing Group: Not applicable
 Exceptions: Not applicable
 Environmental Hazards: Not applicable
 Transport in Bulk: Not applicable
 Special Precautions: Not applicable

**Europe
(ADR/RID)**

This product is not regulated as a dangerous good under ADR/RID

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

**SECTION 15
Regulatory Information**

**SARA Extremely Hazardous
Substances (Sections 302 & 304)**

This product does not contain greater than 1% of any “extremely hazardous substances” listed pursuant to Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) Section 302 or Section 304 as identified in 40 CFR Part 355, Appendix A and B.

SARA Section 313

This product does not contain greater than 1.0% of the substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

SARA Section 311 & 312 Classifications

Acute Hazard	Yes
Chronic Hazard	Yes
Fire Hazard	Yes
Reactivity Hazard	No

CERCLA

This product does not contain any “hazardous substances” listed under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) in 40 CFR Part 302, Table 302.4.

California Prop 65

This product does not intentionally contain any chemicals known by the State of California to cause cancer and/or birth defects. Moreover, we do not routinely analyze its products for impurities which may be such chemicals.

**Clean Water Act / Oil
Pollution Act**

This product contains petroleum distillates and may be subject to regulation by Section 311 of the Clean Water Act and the Oil Pollution Act. Releases of the product into or leading to surface waters must be reported to the National Response Center at 1-800-424-8802.

Global Chemical Inventories

Inventory	Component
	All components
US TSCA	Present
EU	Not available
Japan	Not available
Australia	Not available
New Zealand	Not Available
Canada	Not available
Switzerland	Not available
Korea	Not available
Philippines	Not available
China	Not available
Taiwan	Not available

**SECTION 16
Other Information**

US NFPA Ratings

Health	Fire	Reactivity
1	1	0

HMIS Ratings

Health	Fire	Physical Hazards
1	2	0

Precautionary Labels

Signal Word

CAUTION!
May cause skin irritation. May cause eye irritation. May cause respiratory tract irritation

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