

PRODUCT NAME: ABRO Spray Lubricant
PRODUCT NUMBER/SIZE: AB-80

Revision Date: 10/28/2014

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: Spray Lubricant
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

HMIS: Health 1 Flamm 3 React. 0 NFPA: Tox. 1 Flamm. 3 React. 0

Classification:

Extremely Flammable Aerosol Category 1
Skin irritation Category 2
Carcinogenicity – Category 1B
Mutagenicity – Category 1B
Specific Target Organ Toxicity (Single Exposure) – Category 3
Aspiration hazard Category 1

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. Causes skin irritation
May cause respiratory irritation. May cause drowsiness or dizziness
May cause genetic defects . May cause cancer

Precautionary Phrases: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Do not spray on an open flame or other ignition source.

Keep container tightly closed. Do not pierce or burn, even after use. Do not breathe dust/fume/gas/mist/vapours/spray. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

Response: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of water and take off contaminated clothing. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER or doctor/physician if exposed or you feel unwell.

Storage / Disposal: Store in a well-ventilated place. Keep container tightly closed. Store locked up. 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	OSHA PEL	ACGIH TLV	Percent by weight
Aliphatic Petroleum Distillates	64742-47-8	-----	-----	60 %
Liquefied Petroleum Gas	68476-86-8	Unknown	1000 ppm	15 - 40 %
**Toluene	108-88-3	200 ppm	200 ppm	4 %
**n-Heptane	142-82-5	500 ppm	400 ppm	2 %

** 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.

SECTION 4 First Aid Measures

First Aid Measures

Immediate Medical Attention: Provide general supportive measures and treat symptomatically. Keep victim under observation.

Eyes Immediately flush eyes with water for at least 15 minutes. Get medical attention if irritation persists.

Skin Remove contaminated clothing and wash skin 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.

Inhalation Remove victim to fresh air. Apply artificial respiration if needed. Get medical attention.

Signs & Symptoms Of Over Exposure: High concentrations of vapors may irritate nose and throat and cause symptoms of intoxication such as dizziness, nausea, headache or indigestion. Direct spray or vapors will irritate and may harm eyes; Product may cause irritation to the skin. Ingestion causes irritation (nausea, vomiting, and diarrhea).

Special Treatment: Pre-existing disorders of the lung can be aggravated by exposure.

SECTION 5 Fire Fighting Measures

Extinguishing media Dry Chemical (B-C), Foam, CO₂

Hazardous Combustion: Unknown

Protective Equipment and Precautions for firefighters: Keep containers cool using water spray. Use proper equipment to protect personnel from bursting containers.

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 EXTREMELY FLAMMABLE

SECTION 6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Avoid breathing gas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation.

Methods/materials for containment and cleanup: Absorb spill with inert material then place in a chemical waste container. Dispose of in accordance with local, state, and federal regulations.

Environmental precautions: None.

SECTION 7 Handling and Storage

Precautions for Safe Handling DANGER: EXTREMELY FLAMMABLE. HARMFUL OR FATAL IF SWALLOWED. Contents under pressure. Keep away from heat, sparks and open flames. Do not smoke while using. Avoid contact with eyes. Avoid

prolonged or repeated contact with skin. Use only in a well-ventilated area.

Conditions for Safe Storage

Do not store at temperatures above 120°F. Intentional misuse by deliberately concentrating and inhaling the vapors (contents) may be harmful or fatal. Do not puncture or incinerate containers. Keep out of reach of children. Store in accordance with NFPA 30B for Level 3 Aerosols.

SECTION 8
Exposure Controls/Personal Protection

COMPONENTS	CAS Number	OSHA PEL	ACGIH TLV
Aliphatic Petroleum Distillates	64742-47-8	-----	-----
Liquefied Petroleum Gas	68476-86-8	Unknown	1000 ppm
**Toluene	108-88-3	200 ppm	200 ppm
**n-Heptane	142-82-5	500 ppm	400 ppm

Engineering Controls:

None required for normal use. Maintain adequate ventilation

Personal Protective Equipment:

Skin Impervious clothing and boots. Wash hands after each use. Wear CHEMICAL RESISTANT GLOVES if repeated skin contact occurs or causes irritation

Eyes Wear SAFETY GLASSES to prevent eye contact

Respiratory Use respirator when TLV is exceeded

SECTION 9
Physical and Chemical Properties

Appearance and Physical State:	Amber, thin, oily liquid mixture packaged in pressurized aerosol spray can.
Odor:	Mild vanilla
Odor Threshold:	Not Available.
pH:	Not Applicable.
Melting Point/Freezing Point:	Not Available.
Initial boiling point & boiling range:	Greater than 200 °F
Flash Point:	Not Available.
Evaporation rate:	Greater than 1.0 (BuAc=1)
Flammability (solid, gas)	Not Available.
Upper/lower flammability or explosive limits	Not Available
Vapor pressure	Not Available.
Vapor density	Not Available.
Relative density / Specific gravity	0.850 – 0.950g/mL

Solubility	Insoluble in water
Partition Coefficient n-Octanol/Water	2.7 (Toluene)
Auto-ignition Temperature:	Not Available.
Decomposition Temperature:	Not Available.
Viscosity:	Not Available.
%-VOC Content:	44.01 %
CARB VOC Category/Standard(%)	EXPORT
OTC Model Rule Category/Standard(%)	EXPORT
US EPA Cons Prod Category/Standard(%)	EXPORT

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):	Fire, sparks, open flames, temperatures above 120°F
Incompatibilities:	Strong oxidizers
Hazardous decomposition products:	CO, CO ₂ , Hydrocarbons
Hazardous polymerization:	Will not occur

SECTION 11 Toxicological Information

Likely Routes of Exposure:	Skin or eye contact and inhalation
Symptoms:	High concentrations of vapors may irritate nose and throat and cause symptoms of intoxication such as dizziness, nausea, headache or indigestion. Direct spray or vapors will irritate and may harm eyes; Product may cause irritation to the skin. Ingestion causes irritation (nausea, vomiting, and diarrhea).
Delayed and Immediate Effects: (TOLUENE)	Deliberate inhalation of toluene at high concentrations (e.g., glue sniffing and solvent abuse) has been associated with adverse effects on the liver, kidney and nervous system and can cause CNS depression, cardiac arrhythmias and death. Case studies of persons abusing toluene suggest isolated incidences of adverse effects on the fetus including birth defects.
Chronic Effects: (TOLUENE)	Studies of workers indicate long-term exposure may be related to impaired color vision and hearing. Some studies of workers suggest long-term exposure may be related to neurobehavioral and cognitive changes. Some of these effects have been observed in laboratory animals following repeated exposure to high levels of toluene. Several studies of workers suggest long-

term exposure may be related to small increases in spontaneous abortions and changes in some gonadotropic hormones. However, the weight of evidence does not indicate toluene is a reproductive hazard to humans. Studies in laboratory animals indicate some changes in reproductive organs following high levels of exposure, but no significant effects on mating performance or reproduction were observed. Case studies of persons abusing toluene suggest isolated incidences of adverse effects on the fetus including birth defects. Findings in laboratory animals were largely negative. Positive findings include small increases in minor skeletal and visceral malformations and developmental delays following very high levels of maternal exposure. Studies of workers indicate long-term exposure may be related to effects on the liver, kidney and blood, but these appear to be limited to changes in serum enzymes and decreased leukocyte counts. Studies in laboratory animals indicate some evidence of adverse effects on the liver, kidney, thyroid, and pituitary gland following very high levels of exposure. The relevance of these findings to humans is not clear at this time.

Toxicity Measures:

HEPTANE – Branched, Cyclic and Linear

ORAL LD50: >5g/kg (similar materials)

DERMAL LD50: >2g/kg(similar material)

INHALATION LC50: 65-103g/m³/4hr. rat (similar material)

n-HEPTANE

ORAL LD50: 17.0g/kg (Rat)

DERMAL LD50: 3400mg/kg, rabbit

INHALATION LC50: 65-103g/m³ (4-hr., Rat)

NTP Carcinogen:

No.

IARC Carcinogen:

Toluene Group 3

OSHA Carcinogen:

No.

SECTION 12 Ecological Information

Ecotoxicity:

Toluene is toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment. If Heptane is applied to leaves, this product may kill grasses and small plants by interfering with transpiration and respiration. This product is not toxic to fish but may coat gill structures resulting in suffocation if spilled in shallow, running water. Product may be moderately toxic to amphibians by preventing dermal respiration. This product may cause gastrointestinal distress to birds and mammals through ingestion during pelage grooming.

Persistence and Degradability:

Toluene is rapidly biodegradable in aerobic conditions.

Bioaccumulation Potential:

Not Available.

Mobility in Soil:

Based on similar materials, this product will have a significant tendency to partition to air. Hydrocarbons from this product which do partition to air are expected to rapidly photodegrade.

Other Adverse Effects: Degradation of this product in water occurs primarily by microbial action.
Distribution: Principally to air.

SECTION 13 Disposal Considerations

Storage and Disposal Keep out of reach of children. Do not store near heat, sparks or open flame. Do not puncture or incinerate container. Do not store in direct sunlight. Store in a cool, dry, well-ventilated area away from incompatible materials. Recovered liquids may be sent to an EPA permitted re-claimer or incineration facility. Contaminated material must be disposed of in a permitted waste management facility. Consult Federal, state, or local disposal authorities for approved procedures.

Waste Disposal Method: Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved incinerator or disposed in a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

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 (no toxic subrisk for domestic shipments (MeOH))

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

This product is considered to be hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Section 313 Information (40 CFR 372): This product contains a chemical which is listed in Section 313 at or above the de minimis concentrations. TOLUENE, n-HEPTANE

U. S. Toxic Substance Control Act (TSCA): All components of this product are listed on the U.S. Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

Proposition 65 – California Safe Drinking Water and Toxic Enforcement Act of 1986
This product is not known to contain any chemicals currently listed as carcinogens or reproductive toxins under California Proposition 65 at levels which would be subject to the proposition.

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