

PRODUCT NAME: ABRO Spray Undercoat
PRODUCT NUMBER/SIZE: U-60

Revision Date: 10/29/2014

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 Undercoating
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 RATING: Tox. 2, Flamm. 4, Reactivity, 0 **NFPA RATING:** Tox. 2, Flamm. 4, Reactivity, 0

Classification:

Extremely Flammable Aerosol - Category 1
Skin irritation - Category 2
Eye Irritation – Category 2B
Carcinogenicity – Category 1B
Mutagenicity – Category 1B
Specific Target Organ Toxicity (Single Exposure) – 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. Causes skin and eye irritation
May cause respiratory irritation, genetic defects or cancer.

Precautionary Phrases: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from and do not spray on open flames or other ignition sources. No smoking. Do not pierce or burn, even after use. Keep container tightly closed. Do not breathe fumes. 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.

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

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 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 |
|---------------------------|------------|--|--|-------------------|
| **Toluene | 108-88-3 | 200 ppm | 20 ppm (skin) | 5 % |
| **Asphalt, Oxidized | 64742-93-4 | 5 mg/m ³ (oil mist) | 0.5 mg/m ³ (fume) 5 mg/m ³ (oil mist) | 21 % |
| Stoddard Solvent | 8052-41-3 | None | 100 ppm | 8 % |
| Talc | 14807-96-6 | 2 mg/m ³ TWA (respirable dust) | 2 mg/m ³ TWA (respirable fraction) | 7 % |
| Liquefied Petroleum Gas | 68476-86-8 | Unknown | 1000 ppm | 22 % |
| Non-Hazardous Ingredients | | | | 37 % |

** 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.

Eyes Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Get medical attention, if irritation or symptoms of overexposure persists.

Skin Clean exposed skin with mild soap and water. Seek medical attention if irritation persists.

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| Ingestion | Due to possible aspiration into the lungs, DO NOT induce vomiting if ingested. Provide a glass of water to dilute the material in the stomach. If vomiting occurs, naturally, have the person lean forward to reduce the risk of aspiration. |
| Inhalation | If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention. |
| Signs & Symptoms Of Over Exposure: | Difficulty breathing. Skin irritation. Eye irritation. |
| Special Treatment: | None. Provide general supportive measures and treat symptomatically. |

SECTION 5 Fire Fighting Measures

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| Extinguishing media | Foam, Dry Chemical (B-C), CO ₂ |
| Hazardous Combustion: | Unknown. |
| Protective Equipment and Precautions for firefighters: | <p>Full firefighter equipment including SCBA should be worn to avoid skin contact and inhalation of concentrated vapors. Minimize skin exposure. Highly toxic fumes may be generated by thermal decomposition. Water runoff from firefighters can cause environmental damage. Dike and collect water used to fight fire.</p> <p>Vapors can travel to a source of ignition and flash back. Do not use near fire, sparks, flame or other sources of ignition.</p> |
| Flammability per Flame Projection Test | EXTREMELY FLAMMABLE |

SECTION 6 Accidental Release Measures

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| Personal precautions, protective equipment and emergency procedures: | Shut off all ignition sources. Ventilate area. |
| Methods/materials for containment and cleanup: | Contain leak. Absorb spill with inert material then place in a chemical waste container. Dispose of spill material in accordance with regulations. |
| Environmental precautions: | Water runoff from firefighters can cause environmental damage. |

SECTION 7 Handling and Storage

Precautions for Safe Handling

DANGER! EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPORS MAY CAUSE A FLASH FIRE. VAPOR HARMFUL. HARMFUL OR FATAL IF SWALLOWED. SKIN AND EYE IRRITANT. Contents under pressure. Keep out of reach of children. Do not get this material in your eyes, on your skin, or on your clothing and avoid inhaling vapors, fumes or mist. Follow label cautions carefully. Follow the directions to avoid injury. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful and fatal. Use with adequate ventilation. Do not use in confined areas. Do not smoke while using. Open windows and doors to ensure cross ventilation. Avoid all ignition sources. Use non-sparking tools and explosion proof equipment when handling this material. Do not place container on hot surfaces. Keep away from excessive heat and open flames. Follow all label cautions even after container is emptied because they may retain product residues.

Conditions for Safe Storage

Store in a cool, dry, well-ventilated area away from sources of heat and incompatible materials. Keep container tightly closed when not in use. Keep away from heat, sparks, or open flame. Assure proper ventilation of storage of containers to prevent accumulation of hazardous vapors. Keep out of reach of children. Store in accordance with NFPA 30B for Level 2 Aerosols.

SECTION 8 Exposure Controls/Personal Protection

| COMPONENTS | CAS Number | OSHA PEL | ACGIH TLV |
|----------------------------|------------|--|--|
| **Toluene | 108-88-3 | 200 ppm | 20 ppm (skin) |
| **Asphalt, Oxidized | 64742-93-4 | 5 mg/m ³ (oil mist) | 0.5 mg/m ³ (fume) 5 mg/m ³ (oil mist) |
| Stoddard Solvent | 8052-41-3 | None | 100 ppm |
| Talc | 14807-96-6 | 2 mg/m ³ TWA (respirable dust) | 2 mg/m ³ TWA (respirable fraction) |
| Liquefied Petroleum Gas | 68476-86-8 | Unknown | 1000 ppm |

Engineering Controls:

Maintain adequate ventilation.

Personal Protective Equipment:

Skin Wear CHEMICAL RESISTANT GLOVES if repeated skin contact occurs or causes irritation.

Eyes Wear SAFETY GLASSES with side-shields or GOGGLES

Respiratory Use respirator when TLV is exceeded

SECTION 9

Physical and Chemical Properties

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| Appearance and Physical State: | Brown to a Black opaque liquid packaged in pressurized aerosol spray can. |
| Odor: | Petroleum odor |
| Odor Threshold: | Unknown. |
| pH: | Not Applicable. |
| Melting Point/Freezing Point: | Not Available. |
| Initial boiling point & boiling range: | Greater than 100 °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 | 1.03 g/ml. |
| Solubility | Partially miscible in water |
| Partition Coefficient n-Octanol/Water | 2.7 |
| Auto-ignition Temperature: | Not Available. |
| Decomposition Temperature: | Not Available. |
| Viscosity: | Not Available. |
| %-VOC Content: | 39.5 % |
| CARB VOC Category/Standard(%) | EXPORT |
| OTC Model Rule Category/Standard(%) | EXPORT |
| US EPA Cons Prod Category/Standard(%) | EXPORT |

SECTION 10

Stability and Reactivity

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| 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): | Do not use or store near fire, sparks, or flame. |
| Incompatibilities: | Strong oxidizing agents |
| Hazardous decomposition products: | CO, CO ₂ , may include sulfur oxides and hydrogen sulfide |
| Hazardous polymerization: | Will not occur |

SECTION 11

Toxicological Information

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| Likely Routes of Exposure: | Skin or eye contact and inhalation |
| Symptoms: | May cause drowsiness and dizziness. Headache. Nausea, |

vomiting. Irritation of nose and throat. Irritation of eyes and mucous membranes. Skin irritation. May cause redness and pain.

**Delayed and Immediate Effects:
(TOLUENE)**

Effects from Acute Exposure:

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.

Effects from Repeated or Prolonged Exposure:

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.

**Delayed and Immediate Effects:
(STODDARD SOLVENT)**

Inhalation of vapors may cause nose, throat, and mucous membrane irritation, and nausea, headaches or dizziness, and central nervous system depression, including drowsiness, loss of coordination, and unconsciousness. Eye contact may cause severe irritation, redness, tearing, and blurred vision. If ingested, may cause mouth, throat and gastrointestinal tract irritation and upset with possible nausea, vomiting and diarrhea. Aspiration of petroleum distillates into the lungs can cause severe chemical pneumonitis that can be fatal. See Section 8 for exposure controls.

**Chronic Effects:
(STODDARD SOLVENT)**

Prolonged or repeated skin contact may result in dryness and irritation of the skin. Prolonged contact with clothing saturated in petroleum distillates can cause second degree burns. Long term skin exposure to asphalt can increase sensitivity to the sun, and may cause discoloration.

**Chronic Effects:
(ASPHALT, OXIDIZED)**

In March, 1987, the International Agency for Research on Cancer (IARC) classified "extracts of steam and air refined bitumens" (such as the cutback asphalt in this product) as a Group 2B material, "possibly carcinogenic to humans." This classification was made based on inadequate evidence for the carcinogenicity of extracts of steam and air refined bitumens in experimental animals and inadequate evidence that bitumens alone are carcinogenic to humans. However, asphalt does contain a small amount of polycyclic aromatic hydrocarbons which have been shown to cause cancer and respiratory damage in animals. Based on a 2000 review of health effects literature, NIOSH concluded that roofing asphalt fumes are a potential occupational carcinogen.

**Toxicity Measures:
(STODDARD SOLVENT)**

Eye - Rabbit Standard Draize Test : 500 mg/24H – [Moderate](RTECS)
Skin - Rabbit LD - Lethal dose: >3 gm/kg - [Details of toxic effects not reported other than lethal dose value.]
Skin - Rabbit TD_{Lo}: 2 gm/kg/4W (intermittent) [Skin and Appendages - dermatitis, other (after systemic exposure)](RTECS)
Inhalation - Rat LCLo: 8200 mg/m³/8H; Behavioral - tremor
Inhalation - Rat LC: >5500 mg/m³/4H; Behavioral - somnolence (general depressed activity) (RTECS)
Oral - Rodent rat LD - Lethal dose: >5 gm/kg - [Behavioral - somnolence (general depressed activity)] (RTECS)

**NTP Carcinogen:
IARC Carcinogen:
OSHA Carcinogen:**

None
Toluene Group 3
No.

SECTION 12 Ecological Information

**Ecotoxicity:
(TOLUENE)**

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Persistence and
Degradability:**

Rapidly biodegradable in aerobic conditions. Degradation of this product in water occurs primarily by microbial action.

Bioaccumulation Potential:

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.

Mobility in Soil:

No data available. Distribution is principally to air.

Other Adverse Effects:

Unknown.

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.
- Waste Disposal Method:** The generator of a waste is always responsible for making proper hazardous waste determinations and needs to consider state and local requirements in addition to federal regulations. This material, if discarded as produced, would not be a federally regulated RCRA "Listed" hazardous waste. However, it would likely be identified as a federally regulated RCRA hazardous waste for the following characteristic(s) show below: See Section 7 and 8 for information on handling, storage and personal protection and Section 9 for physical/chemical properties. It is possible that the material as produced contains constituents which are not required to be listed in the MSDS but could affect the hazardous waste determination. Also, use which results in chemical or physical change of this material could subject it to Regulation as a hazardous waste. Container contents should be completely used and containers should be emptied prior to discard. Container residues and rinsates could be considered to be hazardous wastes.
- EPA Waste Number(s):
-D001 – Ignitability Characteristic

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

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.

Components: Toluene, Asphalt

U. S. Toxic Substance Control Act (TSCA): All components of this product are listed or are not regulated U.S. Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

Proposition 65 – California Safe Drinking Water and Toxic Enforcement Act of 1986

WARNING: This product may contain a chemical(s) known to the State of California to cause cancer, birth defects and reproductive harm. Components: Toluene

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"

<="LESS THAN"

BT="BETWEEN"

>="GREATER THAN"

ND = Not Determined

NA = Not Applicable