

**PRODUCT NAME:** ABRO Paint Remover  
**PRODUCT NUMBER/SIZE:** PR-600-R

**Revision Date:** 1/12/2015

## 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:** Paint Remover  
**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:

Aerosol (Category 2)  
Skin irritation (Category 2)  
Eye irritation (Category 2A)  
Carcinogenicity (Category 2)  
Specific target organ toxicity - single exposure (Category 3) CNS  
Specific target organ toxicity – repeated exposure inhalation (Category 2) CNS  
Specific target organ toxicity – repeated exposure oral Liver, Blood (Category 2)

### Label Pictogram(s):



**Signal Word:** WARNING

**Hazard Phrases:** Flammable aerosol. Causes skin irritation and serious eye irritation. Suspected of causing cancer. May cause drowsiness or dizziness or respiratory irritation. May cause damage to organs (Liver, Blood, and CNS) through prolonged or repeated exposure.

**Precautionary Phrases:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe fumes. Wash skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves and eye protection. Keep away from heat, sparks and open flames. No smoking. Do not spray on an open flame or other ignition source. Pressurized container. Do not pierce or burn, even after use. Keep container tightly closed.

**Response:** IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs, get medical attention. Take off contaminated clothing and wash it before reuse. 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. If exposed or concerned, if you feel unwell or if skin or eye irritation occurs or persists, get medical attention.

**Storage / Disposal:** Store in a well-ventilated place. Keep container tightly closed and locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Dispose of contents/ container to an approved waste disposal plant.

**Other:** Keep out of reach of children. Read label before use. If medical advice is needed, have product container or label at hand.

### SECTION 3 Composition/Information on Ingredients

<u>COMPONENTS</u>	<u>CAS Number</u>	<u>Percent by weight</u>
**Methylene Chloride	75-09-2	70 %
Liquefied Petroleum Gas	68476-86-8	15-40 %
Methyl Alcohol	67-56-1	4 %

\*\* 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

<b>Immediate Medical Attention:</b>	Remove victim to fresh air. Apply artificial respiration if necessary. Contact a physician or emergency medical facility immediately.
<b>Eyes</b>	Flush eyes with water for at least 15 minutes. Get medical attention if irritation persists.
<b>Skin</b>	Remove contaminated clothing and shoes. Wash exposed area thoroughly with soap and water for at least 15 minutes. Wash contaminated clothing before reuse.
<b>Ingestion</b>	Do not induce vomiting. Get medical attention immediately.
<b>Inhalation</b>	Move to fresh air. If breathing has stopped, administer artificial respiration. Contact physician or emergency facility immediately.
<b>Signs &amp; Symptoms Of Over Exposure:</b>	May cause central nervous system depression. May cause headache, dizziness, stupor and loss of consciousness. In confined areas, respiratory irritation may occur; Vapor can irritate eyes. May cause pain and irritation with mild temporary damage. Can cause irritation, de-fatting and dermatitis of skin. Single exposure can result in progressively severe burning sensation and redness. May be absorbed through the skin and cause adverse health effects. Can be aspirated into the lungs which can cause chemical pneumonia and systemic effects. May cause abdominal pain, malaise, central nervous system effects.

**Special Treatment:** Chlorinated hydrocarbons may sensitize the heart to epinephrine Organ (heart, lung, and kidney) and pre-existing skin conditions may be aggravated by exposure.

**SECTION 5  
Fire Fighting Measures**

**Extinguishing media** Dry chemical, CO<sub>2</sub>, foam

**Hazardous Combustion:** Unknown

**Protective Equipment and Precautions for firefighters:** Keep containers cool using water spray. Use proper equipment to protect personnel from bursting containers. Wear full firefighting turn-out gear and respiratory protection. Contents under pressure. Do not expose to temperatures exceeding 120°F as containers may vent, rupture or burst.

**Flammability per Flame Projection Test** FLAMMABLE

**SECTION 6  
Accidental Release Measures**

**Personal precautions, protective equipment and emergency procedures:** Air – supplied respirator should be used in confined areas. Impervious clothing. Wash hands after use. Wear VITON GLOVES if repeated skin contact occurs or causes irritation. Wear SAFETY GLASSES to prevent eye contact.

**Methods/materials for containment and cleanup:** Soak up spilled liquid with absorbent material. Place in closed metal drum for proper disposal.

**Environmental precautions:** No information available.

**SECTION 7  
Handling and Storage**

**Precautions for Safe Handling** WARNING: FLAMMABLE. Vapor Harmful. Contents under pressure. Use only in a well-ventilated area. Avoid breathing vapor or mist. Avoid contact with eyes. Do not smoke while using. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Avoid prolonged contact with skin.

**Conditions for Safe Storage** Do not store at temperatures above 120°F. Do not puncture or incinerate containers. Keep out of reach of children. Store in a cool, dry, well-ventilated area away from incompatible materials. Store in accordance with NFPA 30B for Level 2 Aerosols.

**SECTION 8  
Exposure Controls/Personal Protection**

<b>COMPONENTS</b>	<b>CAS Number</b>	<b>OSHA PEL</b>	<b>ACGIH TLV</b>	<b>OTHER</b>
**Methylene Chloride	75-09-2	25 ppm	50 ppm	None

Liquefied Petroleum Gas	68476-86-8	Unknown	1000 ppm (Propane) 800 ppm (Butane)	None
Methyl Alcohol	67-56-1	200 ppm	200 ppm	200 ppm (STEL)

Methylene Chloride has been shown to cause cancer in certain lab animals. Risk to your health depends on the level and duration of exposure.

**Engineering Controls:**

Maintain adequate ventilation.

**Personal Protective Equipment:** Impervious clothing. Wash hands after use.

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

Eyes           Wear SAFETY GLASSES to prevent eye contact

Respiratory   Air – supplied respirator should be used in confined areas.

**SECTION 9  
Physical and Chemical Properties**

<b>Appearance and Physical State:</b>	Clear liquid in pressurized aerosol can
<b>Odor:</b>	Ether like
<b>Odor Threshold:</b>	Not Available.
<b>pH:</b>	Not Available.
<b>Melting Point/Freezing Point:</b>	Not Available.
<b>Initial boiling point &amp; boiling range:</b>	>100°F
<b>Flash Point:</b>	Not Available.
<b>Evaporation rate:</b>	>1.00
<b>Flammability (solid, gas)</b>	Not Available.
<b>Upper/lower flammability or explosive limits</b>	Not Available.
<b>Vapor pressure</b>	Not Available.
<b>Vapor density</b>	Not Available.
<b>Relative density / Specific gravity</b>	1.17 – 1.27g/ml.
<b>Solubility</b>	Insoluble
<b>Partition Coefficient n-Octanol/Water</b>	1.25
<b>Auto-ignition Temperature:</b>	Not Available.
<b>Decomposition Temperature:</b>	Not Available.
<b>Viscosity:</b>	Not Available.
<b>%-VOC Content:</b>	26.1%
<b>CARB VOC Category/Standard (%)</b>	EXPORT
<b>OTC Model Rule Category/Standard (%)</b>	EXPORT
<b>US EPA Cons Prod Category/Standard (%)</b>	EXPORT

**SECTION 10  
Stability and Reactivity**

<b>Reactivity</b>	Product is non-reactive under normal conditions of use.
<b>Chemical Stability:</b>	Product is stable
<b>Possibility of hazardous reactions:</b>	None known.

<b>Conditions to avoid (e.g. static discharge, shock or vibration):</b>	Fire, sparks, open flames and temperatures above 120°F
<b>Incompatibilities:</b>	Avoid contact with strong oxidizers
<b>Hazardous decomposition products:</b>	CO, CO <sub>2</sub>
<b>Hazardous polymerization:</b>	Will not occur

## SECTION 11 Toxicological Information

<b>Likely Routes of Exposure:</b>	Inhalation, eye/skin contact.
<b>Symptoms:</b>	May cause central nervous system depression. May cause headache, dizziness, stupor and loss of consciousness. In confined areas, respiratory irritation may occur; Vapor can irritate eyes. May cause pain and irritation with mild temporary damage. Can cause irritation, de-fatting and dermatitis of skin. Single exposure can result in progressively severe burning sensation and redness. May be absorbed through the skin and cause adverse health effects. Can be aspirated into the lungs which can cause chemical pneumonia and systemic effects. May cause abdominal pain, malaise, central nervous system effects.
<b>Delayed and Immediate Effects:</b>	<p>Inhalation: Methylene Chloride depresses the central nervous system. Concentrations between 900 – 1000 ppm may cause dizziness, nausea, headache and vomiting can occur at concentrations above 2000 ppm. At 7000 ppm, numbness and tingling in arms and legs and rapid heartbeat have occurred. Loss of consciousness and death has occurred at levels above 9000 ppm, if exposure is prolonged.</p> <p>Carboxyhemoglobin levels can be elevated in persons exposed to Methylene Chloride and can cause a substantial stress on the cardiovascular system. This elevation can be additive to the increase caused by smoking and other carbon monoxide sources.</p>
<b>Chronic Effects:</b>	Adverse effects on the liver and kidneys have been reported in lab animal studies. The finding of chronic toxic effects in lab animals may indicate toxicity to humans. Overexposure should be avoided; failure to do so could result in injury, illness or even death, depending on the level and duration of exposure.

### Carcinogenicity

Methylene Chloride has been evaluated for possible cancer causing effects in lab animals. Inhalation studies at concentrations of 2000 and 4000 ppm increased the incidence of malignant liver and lung tumors in mice. Three inhalation studies of rats have shown increased incidence of benign mammary gland tumors in female rats at concentrations of 500 ppm and above and increases in benign mammary gland tumors in males at concentrations of 1500 ppm and above. Rats exposed to 50 and 200 ppm via inhalation showed no increased incidence of tumors. Mice and rats exposed by ingestion at levels up to 250mg/kg/day lifetime and hamsters exposed via inhalation to concentrations up to 3500 ppm lifetime did not show an increased incidence of tumors.

Propylene Oxide has caused increased incidence of nasal tumors in rats exposed by inhalation, fore-stomach tumors in rats exposed.

The International Agency for Research on Cancer (IARC) has concluded that, with respect to both Methylene Chloride and Propylene Oxide, there is sufficient evidence of carcinogenicity to experimental animals and inadequate evidence for carcinogenicity to humans, resulting in a classification as a 2B animal carcinogen. The NTP has classified Methylene Chloride and Propylene Oxide as substances reasonably anticipated to be human carcinogens. ACGIH classifies Methylene Chloride and Propylene Oxide as A3- Animal Carcinogens.

Epidemiology studies of 751 humans chronically exposed to Methylene Chloride in the workplace of which 252 were exposed for a minimum of 20 years did not demonstrate any increase in deaths caused by cancer or cardiac problems. A second study of 2,227 workers confirmed these results.

#### **MUTAGENICITY**

Methylene Chloride has been evaluated for its potential to induce genotoxic effects in both in vivo and in vitro systems, with mixed results. Based on this evidence, Methylene Chloride may be considered to be a weak mutagen in mammalian systems.

#### **REPRODUCTIVE TOXICITY**

Lab animal studies on mice, rats and rabbits have been conducted to evaluate the potential reproductive and developmental effects of Methylene Chloride exposures. Methylene Chloride exposure has not been shown to cause teratogenic effects (birth defects) in experimental animals.

#### **Animal Toxicology**

Inhalation LC50: 14,400ppm – 7hrs (mouse)

Dermal LD50: Not determined

Oral LD 50: 1600 mg/kg (rats)

<b>NTP Carcinogen:</b>	Reasonably anticipated to be a human carcinogen (Methylene Chloride)
<b>IARC Carcinogen:</b>	Group 2B (Methylene Chloride)
<b>OSHA Carcinogen:</b>	Yes – Methylene Chloride

## **SECTION 12**

### **Ecological Information**

#### **Ecotoxicity:**

Acute LC50 (96 Hrs, flow-through) for Fathead Minnow:	193mg/L
Acute LC50 (96 Hrs, static) for Fathead Minnow:	310 mg/L
Acute LC50 (96 Hrs, static) for Bluegill:	220mg/L @ 21 – 23°C
Acute LC50 (96 Hrs,) for Mysid Shrimp:	256 mg/L

#### **Persistence and Degradability:**

Water: Methylene in water is subject to rapid evaporation, with estimated evaporative half-lives ranging from 3 – 5.6 hours under moderate mixing conditions. Hydrolysis is not significant in water under normal environmental conditions. Biodegradation may occur in groundwater, but will be very slow compared with evaporation. Methylene Chloride is not expected to bio-concentrate, with an estimated bio-concentration factor of 5. Henry's Law Constant is  $3.19 \times 10^{-3}$  atm m<sup>3</sup>/mol.

Octanol/Water Partition Coefficient (log Kow) is 1.25

Soil: Methylene Chloride is expected to evaporate rapidly from near-surface soil. It is probable that Methylene Chloride can leach through subsoil into groundwater. Soil adsorption potential is low. Calculated Adsorption Coefficient (log KOC) is 1.68.

Air: Methylene Chloride in the atmosphere will degrade by reaction with hydroxyl radicals, with a half-life of several months. It is not subject to direct photo oxidation.

**Bioaccumulation Potential:** No information available.

**Mobility in Soil:** No data available.

**Other Adverse Effects:**

METHYL ALCOHOL

Elimination information (persistence and degradability)

Biodegradability: Result: Readily biodegradable.

Bioaccumulation

METHYL ALCOHOL: Species: Green algae (*Chlorella fusca vacuolata*)

Exposure time: 24 h Dose: 0.05 mg/l Bioconcentration factor (BCF): 28,400 Method: Static

Ecotoxicity effects Toxicity to fish METHYL ALCOHOL: no data available

Toxicity to daphnia and other aquatic invertebrates. METHYL ALCOHOL: 48 h EC 50 Water flea (*Daphnia magna*): > 10,000.00 mg/l Method: Static Intoxication

Toxicity to algae METHYL ALCOHOL : no data available

Toxicity to bacteria METHYL ALCOHOL: no data available

Biochemical Oxygen Demand (BOD) METHYL ALCOHOL: no data available

Chemical Oxygen Demand (COD) METHYL ALCOHOL: no data available

Additional ecological information METHYL ALCOHOL: no data available

## SECTION 13 Disposal Considerations

**Storage and Disposal** Do not store at temperatures above 120°F. Do not puncture or incinerate containers. Keep out of reach of children. Store in a cool, dry, well-ventilated area away from incompatible materials. Store in accordance with NFPA 30B for Level 2 Aerosols.

**Waste Disposal Method:** All disposal of this product must be done in accordance with Federal, state and local regulations. Waste characterization and compliance with disposal regulations are the responsibilities of the waste generators. 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.

## 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:	UN1950
	Proper shipping name:	Aerosols
	Hazard class:	2.1
	Packing Group:	None
	Exceptions:	May be shipped as a limited quantity
	Environmental Hazards:	None
	Transport in Bulk:	Not Applicable.
	Special Precautions:	ERG#126
<b>IMO/IMDG</b>	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:	None
	Transport in Bulk:	Not Applicable
	Special Precautions:	EmS F-D, S-U
<b>ICAO/IATA</b>	UN/ID Number:	UN1950
	Proper shipping name:	Aerosols
	Hazard Class:	2.1
	Packing Group:	None
	Exceptions:	None
	Environmental Hazards:	None
	Transport in Bulk:	Not Applicable
	Special Precautions:	None
<b>Canada TDG</b>	UN/ID Number:	UN1950
	Proper shipping name:	Aerosols
	Hazard class:	2.1
	Packing Group:	None
	Exceptions:	May be reclassified as a limited quantity.
	Environmental Hazards:	None
	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 does not contain chemicals which are listed in Section 313 at or above the de minimis concentrations.

U. S. Toxic Substance Control Act (TSCA): All components of this product are listed or are excluded from listing on the 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.

Methylene Chloride

Sara Title III: Methylene Chloride

CERCLA: YES

RCRA: YES

TSCA INVENTORY: All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30

## 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"

ND = Not Determined

BT="BETWEEN"

>="GREATER THAN"

NA = Not Applicable