

PRODUCT NAME: ABRO Ultra Plus Copper Gasket Spray  
PRODUCT NUMBER/SIZE: CG-418-R

Revision Date: 10/30/2014

## 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: Gasket Spray  
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 2 Flamm. 4 React. 0 NFPA: Tox. 2 Flamm. 4 React. 0

### Classification:

Aerosol (Category 1)  
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 (Category 2)

### Label Pictogram(s):



Signal Word: DANGER

Hazard Phrases: Extremely flammable aerosol. Pressurized container: may burst if heated  
Causes skin irritation. Causes serious eye irritation. Suspected of causing  
cancer. May cause drowsiness or dizziness. May cause damage to organs  
through prolonged or repeated exposure.

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 sources of ignition. No smoking. Keep container tightly closed.  
Do not pierce or burn, even after use. Avoid breathing fumes. Wash thoroughly

after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves and eye protection.

**Response:** IF ON SKIN: Wash with plenty of water. If skin irritation occurs get medical attention. Take off contaminated clothing and wash it before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If exposed or concerned or if you feel unwell, call a doctor immediately and get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. If eye irritation persists: get medical attention.

**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 contents/ container in accordance with local and national regulations.

**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

<b>COMPONENTS</b>	<b>CAS Number</b>	<b>Percent by weight</b>
Liquefied Petroleum Gas	68476-86-8	40 %
**Dichloromethane	75-09-2	29 %
2-Propanone	67-64-1	16 %
Hydrocarbon Resin	Proprietary	5.4 %
Ethyl Acetate	141-78-6	3 %
Copper	7440-50-8	2.4 %
Solvent Naphtha (petroleum)	64742-89-8	1.6 %
Light Aliphatic		

\*\* 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>	Immediately flush eyes with water for at least 15 minutes. Get medical attention if irritation persists
<b>Skin</b>	Remove contaminated clothing and shoes and wash skin with soap and water for at least 15 minutes. Wash contaminated clothing before reuse.
<b>Ingestion</b>	DO NOT induce vomiting. Contact physician or emergency medical facility immediately.
<b>Inhalation</b>	Remove victim to fresh air. Apply artificial respiration if necessary. Contact a physician or emergency medical facility immediately.

<b>Signs &amp; Symptoms Of Over Exposure:</b>	Can cause CNS Depression with symptoms of headache, dizziness, stupor, loss of consciousness depending on duration of exposure. Exposure to high concentrations can cause irregular heartbeat and cardiac arrest. Overexposure may cause adverse effects on the lungs, liver, kidney, nervous system and other internal organs. Contact with eyes produces pain and irritation with mild temporary damage possible. Vapor can irritate eyes. Contact with skin causes irritation, defatting and dermatitis. Prolonged exposure can result in progressively severe burning sensation and redness. May be absorbed through the skin and cause adverse health effects.
<b>Special Treatment:</b>	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed. Contains Methylene Chloride (Dichloromethane) which has been shown to cause cancer in certain lab animals. Risk to your health depends on the level and duration of exposure.

## SECTION 5 Fire Fighting Measures

<b>Extinguishing media</b>	Dry chemical, CO <sub>2</sub> , Alcohol-resistant foam
<b>Hazardous Combustion:</b>	Unknown
<b>Protective Equipment and Precautions for firefighters:</b>	Keep containers cool using water spray to avoid bursting containers. Wear full firefighting turn-out gear and respiratory protection: 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.
<b>Flammability per Flame Projection Test</b>	EXTREMELY FLAMMABLE

## SECTION 6 Accidental Release Measures

<b>Personal precautions, protective equipment and emergency procedures:</b>	IF ON SKIN: Wash with plenty of water. If skin irritation occurs, discontinue using this product and get medical attention. Take off contaminated clothing and wash it before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If exposed or concerned or if you feel unwell, call a POISON CENTER or doctor immediately and get medical attention. IF IN EYES: Remove contact lenses, if present and easy to do. Rinse cautiously with water for several minutes
<b>Methods/materials for containment and cleanup:</b>	Absorb spill with inert material then place in a chemical waste container. Dispose of spill material in accordance with local, state or federal regulations. Before offering for recycling, empty the container by using the product according to the label. If recycling is not available, wrap the container and discard in the trash. Dispose of unused product in accordance with regulations.
<b>Environmental precautions:</b>	No information available.

## SECTION 7 Handling and Storage

**Precautions for Safe Handling**

EXTREMELY FLAMMABLE. VAPOR HARMFUL. HARMFUL OR FATAL IF INHALED OR SWALLOWED. EYE AND SKIN IRRITANT. CONTENTS UNDER PRESSURE. Contains Methylene Chloride which has been shown to cause cancer in certain lab animals. Risk to your health depends on the level and duration of exposure. Keep out of reach of children. Read label cautions carefully. Follow label directions to avoid injury. Use with adequate ventilation. Do not use in confined areas. Do not place near source of heat, radiator or in direct sunlight. High temperature may cause container to burst. Keep away from heat, sparks or open flames. Wash hands thoroughly after each use. Do not smoke while using. Avoid contact with skin and eyes. Avoid breathing spray, vapor or mist. Do not puncture container. Intentional misuse by deliberately concentrating and inhaling the vapors (contents) may be harmful or fatal.

**Conditions for Safe Storage**

Keep out of reach of children. Do not store near heat, sparks, or open flames. Do not expose to temperatures above 120°F as container may vent, rupture or burst. Do not puncture or incinerate container. Do not store in direct sunlight. Store in a cool, dry, well-ventilated area away from incompatible materials. Store in accordance with NFPA 30B for Level 3 Aerosols.

## SECTION 8 Exposure Controls/Personal Protection

<u>Component</u>	<u>CAS #</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Liquefied Petroleum Gas	68476-86-8	Unknown	1000 ppm
**Dichloromethane	75-09-2	25 ppm	50 ppm
2-Propanone	67-64-1	1000 ppm	500 ppm (750 ppm STEL)
Hydrocarbon Resin	Proprietary	Unknown	Unknown
Ethyl Acetate	141-78-6	400 ppm (1400 mg/m <sup>3</sup> )	400 ppm
Copper	7440-50-8	1 mg/m <sup>3</sup> (dust)	1 mg/m <sup>3</sup> (dust)
Solvent Naphtha (petroleum) Light Aliphatic	64742-89-8	Unknown	Unknown

**Engineering Controls:** Maintain adequate ventilation.

**Personal Protective Equipment:**

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

**Eyes** Wear GOGGLES OR SAFETY GLASSES to prevent eye contact.

**Respiratory** Use respirator only as a last resort to control exposure

## SECTION 9 Physical and Chemical Properties

<b>Appearance and Physical State:</b>	Copper liquid mixture packaged in pressurized aerosol spray can.
<b>Odor:</b>	Not Available.
<b>Odor Threshold:</b>	Not Available
<b>pH:</b>	Not Applicable.
<b>Melting Point/Freezing Point:</b>	Not Available.
<b>Initial boiling point &amp; boiling range:</b>	Greater than 100 °F
<b>Flash Point:</b>	None.
<b>Evaporation rate:</b>	Greater than 1.0 (BuAc=1)
<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>	Not Available.
<b>Solubility</b>	Not Available.
<b>Partition Coefficient n-Octanol/Water</b>	Not Available.
<b>Auto-ignition Temperature:</b>	Not Available.
<b>Decomposition Temperature:</b>	Not Available.
<b>Viscosity:</b>	Not Available.
<b>%-VOC Content:</b>	45%
<b>CARB VOC Category/Standard (%)</b>	Not Available.
<b>OTC Model Rule Category/Standard (%)</b>	Not Available.
<b>US EPA Cons Prod Category/Standard (%)</b>	Not Available.

## 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>	Heat, sparks, open flames and temperatures above 120°F
<b>Incompatibilities:</b>	Strong oxidizers, alkalis, reactive metals,
<b>Hazardous decomposition products:</b>	CO, CO2, and hydrocarbons.
<b>Hazardous polymerization:</b>	Will not occur

## SECTION 11 Toxicological Information

<b>Likely Routes of Exposure:</b>	Skin or eye contact and inhalation
<b>Symptoms:</b>	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.
<b>Delayed and Immediate Effects:</b>	No information available.

<b>Chronic Effects:</b>	No information available.
<b>Chronic Effects:</b>	No data available
<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
<b>Toxicity Measures:</b>	
<b>Ethyl Acetate</b>	LD50 (RAT) = 5.6 g/kg Oral LD50 (RABBIT) = 4.9 g/kg Oral LD50 (RABBIT) = 4.94 g/kg Inhalation LC50 (RAT, 6 h) = 16000 ppm
<b>Methylene Chloride</b>	Oral LD50 (RAT) = 1,600 mg/kg Oral LD50 (RAT) = 3,000 mg/kg Inhalation LC50 (RAT, 15 min) = 2,000 mg/l Inhalation LC50 (RAT, 2 h) = 79 mg/l Inhalation LC50 (RAT, 6 h) = 52 mg/l Inhalation LC50 (RAT, 900 d) = 88 mg/l
<b>2-Propanone</b>	Oral LD50 (RABBIT) = 5,340 mg/kg Oral LD50 (RAT) = 5,800 mg/kg Oral LD50 (RAT) = 9,800 mg/kg Dermal LD50 (RABBIT) = 20,000 mg/kg Inhalation LC50 (RAT, 8 h) = 50.1 mg/l Inhalation LC50 (RAT, 4 h) = 76 mg/l

## SECTION 12 Ecological Information

<b>Ecotoxicity:</b>	No information available.
<b>Persistence and Degradability:</b>	No data available.
<b>Bioaccumulation Potential:</b>	No information available.
<b>Mobility in Soil:</b>	No data available.
<b>Other Adverse Effects:</b>	No data available.

## SECTION 13 Disposal Considerations

<b>Storage and Disposal</b>	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.
<b>Waste Disposal Method:</b>	Do not dispose of this product in drains or storm sewers. Do not dispose of this product in a landfill without prior solidification. 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. Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## 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, flammable
	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:	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

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

WARNING: This product contains a chemical known to the State of California to cause cancer.

## 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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**ABBREVIATIONS:**

NG="NOT GIVEN"

<="LESS THAN"

ND = Not Determined

BT="BETWEEN"

>="GREATER THAN"

NA = Not Applicable