

PRODUCT NAME:
PRODUCT
NUMBER/SIZE:

ABRO Gasket Shellac
GS-10A-MA-E

Revision Date: 08/12/2019

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: Head Gasket Shellac
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

Substance/Mixture : Mixture

Classification:

Flam.Liq.2
Eye Irrit.2
STOT SE 3

Label Pictogram(s):



Signal Word: DANGER

Hazard Phrases: Highly flammable liquid and vapor. Causes serious eye irritation.
May cause drowsiness or dizziness. May cause an allergic skin reaction.

Precautionary Phrases: Keep away from open flames. - No smoking. Use explosion proof equipment and non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Avoid breathing vapors. Wash skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear eye protection and protective gloves

Response: IF ON SKIN (or hair): Remove immediately all contaminated clothing. Wash and rinse skin with plenty of water. Contaminated work clothing must not be allowed out of the workplace and must be washed before reuse. . If skin irritation or rash

occurs: Get medical attention. IF INHALED: Remove person 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 eye irritation persists or you feel unwell, get medical attention. In case of fire: Use dry dry chemical, foam or CO₂ for extinction. Specific Treatment – refer to section 4 of the SDS.

Storage / Disposal: Store locked up in a well-ventilated place. Keep container tightly closed and cool. Dispose of contents/ container to an approved waste disposal plant

Other: Other hazards which do not result in classification but contribute to overall hazards: None known

SECTION 3 Composition/Information on Ingredients

COMPONENTS	CAS Number	Percent by weight
2-Propanol	67-63-0	30-50 %

SECTION 4 First Aid Measures

In case of inhalation: Remove to fresh air, keep warm and at rest. Contact physician if symptom persists.

In case of skin contact: Remove contaminated clothing. Rinse with copious amount of water and soap. Get medical advice if skin irritation or a rash occurs. Wash clothing before reuse.

In case of eye contact: Contact lenses should be removed. Rinse with copious amount of water immediately. Seek medical advice if eye irritation develops and persists.

In case of ingestion: DO NOT induce vomiting. Rinse mouth thoroughly with water. Get medical attention if a symptom persists.

Personal protection equipment for first-aiders: Pay attention to any potential hazards and use recommended personal protection equipment if potential for exposure exists.

Most important symptoms and effects, acute and delayed: May cause eye irritation. May cause drowsiness and dizziness.

SECTION 5 Fire Fighting Measures

Suitable extinguishing media:

Alcohol-resistant foam, carbon dioxide, dry chemical.

Unsuitable extinguishing media:

None known.

Specific firefighting procedures:

Remove undamaged containers from fire area if it is safe to do so. Use extinguishing media that is suitable to local circumstances and surrounding environment.

Special person protection equipment for firefighters:

NIOSH-approved self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Specific hazards arising from firefighting:

Exposure to combustion products may be a hazard to health.

Thermal decomposition products:

Carbon dioxide, carbon monoxide, nitrogen oxides, and other irritant gases.

**SECTION 6
Accidental Release Measures**

Personal precautions, protective equipment and emergency procedures:

Use recommended personal protective equipment. Keep unprotected persons away. Ensure adequate ventilation.

Methods/materials for containment and cleanup:

Wipe or soak with inert liquid binding material (sand, sawdust, etc.). Scrape away cured material. Dispose the spilt material according to local or national regulations. Section 13 of this safety data sheet provides information regarding certain local or national requirements.

Additional information:

Prevent spillage from entering drainage/sewer systems. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

**SECTION 7
Handling and Storage**

Precautions for Safe Handling

Ensure good ventilation during use. Avoid contact with skin and eyes. Do not eat, drink, or smoke when using the product.

Conditions for Safe Storage

Ensure containers and cartridges are tightly closed. Store in a dry, well-ventilated area, and protected from direct sunlight with temperature not exceeding 30 °C. Keep away from incompatibles. Refer to section 10 for incompatible materials.

**SECTION 8
Exposure Controls/Personal Protection**

Components	CAS No.	Form of exposure (Value type)	Control Parameter	Basis
Propan-2-ol	108-88-3	8 hours TWA	983 mg/m ³	Malaysia OSHA
Propan-2-ol	108-88-3	8 hours TWA	980 ppm	US OSHA

Propan-2-ol	108-88-3	8 hours TWA	999 mg/m3	UK WEL
Propan-2-ol	108-88-3	8 hours TWA	983 mg/m3	Safe Work Australia

Engineering controls:

Product curing may form hazardous compounds. Ensure adequate ventilation and minimize workplace exposure concentrations.

Industrial hygiene:

Remove immediately all contaminated clothing. Do not inhale vapor. Wash hands and contaminated areas with water and soap before leaving the work site. Change clothing before leaving workplace and wash before reuse. Do not eat, drink, or smoke while using product.

Hand protection:

Suitable impervious protective gloves (neoprene, nitrile, etc.). Breakthrough time is not tested for this product. Change gloves often if possible.

Respiratory protection:

A NIOSH-approved respirator with filter for organic vapors is recommended where local ventilation is not adequate.

Eye/Face protection:

Protective goggles/safety glasses.

**SECTION 9
Physical and Chemical Properties**

Appearance and Physical State:	Viscous Liquid
Odor:	Aromatic Odor
Odor Threshold:	Not Available.
pH:	Not Available
Melting Point/Freezing Point:	Not Available
Initial boiling point & boiling range:	Not Available
Flash Point:	22.9 °C
Evaporation rate:	Not Applicable
Flammability (solid, gas)	Highly Flammable
Upper/lower flammability or explosive limits	Not Available
Vapor pressure	Not Available.
Vapor density	Heavier than air.
Relative density / Specific gravity	Approximately 0.96
Solubility	Insoluble
Partition Coefficient n-Octanol/Water	Not Available.
Auto-ignition Temperature:	Not Available.
Decomposition Temperature:	Not Available.
Viscosity:	Not Available.
CARB VOC Category/Standard (%)	Not Available.
OTC Model Rule Category/Standard (%)	Not Available.
US EPA Cons Prod Category/Standard (%)	Not Available.

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):	MIXTURE WITH OR EXPOSURE TO INCOMPATIBLE MATERIALS (SEE BELOW) AVOID HEAT, SPARKS AND FLAMES.
Incompatibilities:	OXIDIZING AGENTS, SPONTANEOUS HEATING MAY OCCUR IF STORED IN A NON-VENTILATED AREA AT ELEVATED TEMPERATURES
Hazardous decomposition products:	None.
Incompatible materials:	Strong oxidizing agents, acids, and sources of ignition

SECTION 11
Toxicological Information

No specific oral, inhalation or dermal toxicology data is known for this product. Any toxicological data included in this section is based on the data associated with the components.

Acute oral toxicity, LD50 (rat):

Not classified based on available information and/or concentration of components.

Propan-2-ol	5,840 mg/kg
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Acute dermal toxicity, LD50 (rabbit):

Not classified based on available information and/or concentration of components.

Propan-2-ol	12,900 mg/kg
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Acute inhalation toxicity, LC50 (4 hours, rat):

Not classified based on available information and/or concentration of components.

Propan-2-ol	>10,000 ppm
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Serious eye damage/eye irritation:

Classified as an eye irritant.

Propan-2-ol	Causes serious eye irritation.
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Skin corrosion/skin irritation:

Not classified based on available information and/or concentration of components.

Propan-2-ol	Not skin irritant.
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Respiratory/Skin sensitization:

Not classified based on available information and/or concentration of components.

Propan-2-ol	Not sensitizing on skin.
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Germ cell mutagenicity:

Not classified based on available information and/or concentration of components.

Propan-2-ol	Negative genotoxicity in vitro.
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Carcinogenicity:

Not classified based on available information and/or concentration of components.

Reproductive toxicity:

Not classified based on available information and/or concentration of components.

Specific target organ toxicity – single exposure:

Classified as having narcotic effects.

Propan-2-ol	May cause drowsiness and dizziness.
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Specific target organ toxicity – repeated exposure:

Not classified based on available information and/or concentration of components.

Aspiration toxicity:

Not classified based on available information and/or concentration of components.

Likely route of administration:

Inhalation, skin contact, and ingestion.

SECTION 12
Ecological Information

Individual components of this mixture have been independently tested by the raw material suppliers and any known results have been presented below. The results for the individual components may not be representative of the ecological toxicity of this finished product. This finished product has not been tested to determine individual toxicological/ecological limits.

Ecology toxicity:

No adverse effect on aquatic organisms is predicted based on available information and/or concentration of components.

Propan-2-ol	-
Toxicity to fish	-
Toxicity to crustacean	Exposure for 24 hours, LC50: 10,000 mg/L
Toxicity to algae or other aquatic plants	-

Persistence and degradability:

Not likely to be persistent based on available information and/or concentration of components.

Bio accumulative potential:

No bioaccumulation potential based on available information and/or concentration of components.

Mobility in soil:

No data available.

**SECTION 13
Disposal Considerations**

Storage and Disposal

Store locked up in a well-ventilated place. Keep container tightly closed and cool. MINIMUM FEASIBLE HANDLING TEMPERATURES SHOULD BE MAINTAINED. EYE WAS AND SAFETY SHOWER SHOULD BE AVAILABLE NEARBY WHEN THIS PRODUCT IS HANDLED OR USED. MINIMIZE EXPOSURE TO PERIODS OF HIGH TEMPERATURES. AVOID CONTAMINATION OF WATER.

Waste Disposal Method:

Dispose of contents/ container to an approved waste disposal plant. INCINERATE IN FURNACE OR BURY IN LANDFILL IN ACCORDANCE WITH FEDERAL, STATE, 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	UN/ID Number:	UN1133
	Proper shipping name:	ADHESIVES containing flammable liquid
	Hazard class:	3
	Packing Group:	II
	Exceptions:	May be shipped as a limited quantity or consumer commodity
	Environmental Hazards:	None
	Transport in Bulk:	Not Applicable.
Special Precautions:	ERG#127	
IMO/IMDG	UN/ID Number:	UN1133
	Proper shipping name:	ADHESIVES containing flammable liquid
	Hazard class:	3
	Packing Group:	II

Exceptions: May be shipped as a limited quantity
 Environmental Hazards: None
 Transport in Bulk: Not Applicable
 Special Precautions: EmS F-E, S-E

ICAO/IATA UN/ID Number: UN1133
 Proper shipping name: ADHESIVES containing flammable liquid
 Hazard Class: 3
 Packing Group: II
 Exceptions: May be shipped as a limited quantity or consumer commodity
 Environmental Hazards: None
 Transport in Bulk: Not Applicable
 Special Precautions: None

Canada (TDG) UN/ID Number: UN1133
 Proper shipping name: ADHESIVES containing flammable liquid
 Hazard class: 3
 Packing Group: II
 Exceptions: May be reclassified as a limited quantity.
 Environmental Hazards: None
 Transport in Bulk: Not Applicable
 Special Precautions: ERG#127

SECTION 15 Regulatory Information

Safety, health, and environmental regulations specific for the hazardous chemical in question:

Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations 2010 (Malaysia)

Occupational Safety and Health (Classification, Labelling, and Safety Data Sheet of Hazardous Chemicals) Regulations 2013 (Malaysia)

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (European Union)

Occupational Safety and Health Administration (OSHA) (2006) Air Contaminants. 29 CFR 1910.1000 (United States of America)

Work Health and Safety Act 2011 (Australia)

EH40/2005 Workplace exposure limits (United Kingdom)

Chemical inventory status:

Australia AICS : All ingredients listed or exempt.
 Canada DSL : All ingredients listed or exempt.
 China IECSC : All ingredients listed or exempt.
 Japan ENCS : All ingredients listed or exempt.
 Korea KECI : All ingredients listed or exempt.
 Philippines PICCS : All ingredients listed or exempt.
 United States TCSA : All ingredients listed or exempt.

SECTION 16
Other Information

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