



# SAFETY DATA SHEET

## GARB-O-SOLV

### 1. IDENTIFICATION OF THE SUBSTANCE OR PREPARATION AND OF THE COMPANY

<b>Identification of Preparation:</b>	GARB-O-SOLV
<b>Date of Safety Data Sheet:</b>	May 9, 2022
<b>Use of Preparation:</b>	Cleaner, Degreaser and Deodorizer.
<b>Company Identification:</b>	Mega-Lab Manufacturing Co. Ltd. 3-25 Planchet Road, Concord, Ontario. L4K 2C5
<b>Company Emergency Telephone Number</b>	Emergency Phone: 905 532-9000
<b>Transportation Emergency Telephone Number</b>	CANUTEC 613-996-6666 or * 666 for cell phone

### 2. HAZARD IDENTIFICATION

#### Emergency Overview:

#### OSHA / WHMIS 2015 Hazards

#### Classification of substance or mixture

#### GHS-US/Canadian classification:

#### GHS Hazards

Flammable Liquid Category 3 H226

Aspiration Hazard Category 1 H304

Skin Irritant Category 2 H315

Skin Sensitizer Category 1 H317

#### Label Elements

#### GHS Labeling

#### Hazard Pictograms (GHS):



**Signal Word (GHS):** Danger

#### Hazard Statements (GHS):

H226: Flammable liquid and vapour.

H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

#### Precautionary Statements (GHS):

P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P233: Keep container tightly closed.

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P240: Ground/bond container and receiving equipment.  
P241: Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
P242: Use only non-sparking tools.  
P243: Take precautionary measures against static discharge.  
P264: Wash skin thoroughly after handling.  
P271: Use only outdoors or in a well-ventilated area.  
P272: Contaminated work clothing must not be allowed out of the workplace.  
P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.

### Response Statements (GHS):

P301 + P310+331 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Do NOT induce vomiting.  
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.  
P304 + P340+ P312 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.  
P321: Specific treatment (see supplemental first aid instructions on this label).  
P333+ P313: If skin irritation or a rash occurs: Get medical advice/attention.  
P362: Take off contaminated clothing and wash before reuse.  
P370 + P378: In case of fire: Use dry sand, dry chemical, or alcohol-resistant foam for extinction.  
P391: Collect spillage.  
P403 + P233: Store in a well-ventilated place. Keep container tightly closed.  
P405: Store locked up.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Description: Chemical

Ingredient	CAS#	% by Wt	Classification
D Limonene	5989-27-5	65-85	Flammable Liquids Category 3 – H226 Acute Toxicity (Oral) Category 4 - H302 Aspiration Hazard Category 1- H304 Skin Corrosion/Irritation Category 2 - H315 Skin Sensitisation Category 1- H317

### 4. FIRST AID MEASURES

**Inhalation:** Remove to fresh air. If symptoms persist consult physician.  
**Eye Contact:** Remove contacts. Flush with water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.  
**Skin Contact:** Thoroughly wash exposed skin with soap and water. Remove any contaminated clothing and wash before reuse.  
**Ingestion:** Wash out mouth with water. Drink plenty of water. Do not induce vomiting unless directed by medical personal. Never give anything to an unconscious person. Get medical aid.



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### Notes to Physician:

If ingested, this material presents a significant aspiration and chemical pneumonitis hazard. Induction of emesis is not recommended. Consider activated charcoal and/or gastric lavage. If patient is obtunded, protect the airway by cuffed endotracheal intubation or by placement of the body in a Trendelenburg and left lateral decubitus position.

## 5. FIRE FIGHTING MEASURES

### Suitable extinguishing media:

Use caution when applying carbon dioxide in confined spaces.  
SMALL FIRE: Steam, CO<sub>2</sub>, dry chemical, or inert gas (e.g., nitrogen). LARGE FIRE: Use foam, water fog or water spray. Water fog and spray are effective in cooling containers and adjacent structures. However, water can cause frothing and/or may not extinguish the fire. Water can be used to cool the external walls of vessels to prevent excessive pressure, ignition, or explosion.

### Unsuitable extinguishing media: Special exposure hazards

Water jet.  
Fire or excessive heat may produce hazardous decomposition products.

### Special safety equipment: Fire and explosion

Self-contained positive pressure breathing apparatus and protective clothing. Highly flammable liquid and vapor. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static accumulation may be significantly increased by the presence of small quantities of water or other contaminants. In a fire or if heated, a pressure increase will occur, and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

### Further information

Keep containers and surroundings cool with water spray

## 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Do not get in eyes, on skin, or on clothing. Do not breathe mist.

### For Non-Emergency Personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk-through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

### For Emergency Personnel

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Ventilate area.

### **Environmental Precautions**



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Prevent entry to sewers and public waters.

#### **Methods and Material for Containment and Cleaning Up**

**For Containment:** Contain any powder spills with dikes to prevent migration and entry into sewers or streams.

**Methods for Cleaning Up:** Clear up spills immediately and dispose of waste safely.

**Reference to Other Sections:** See Heading 8. Exposure controls and personal protection.

## 7. HANDLING AND STORAGE

### **Precautions for safe handling:**

Put on appropriate personal protective equipment (see Section 8). Do not swallow. Avoid contact with eyes, skin, and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame, or any other ignition source. Use explosion-proof electrical (ventilating, lighting, and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container. Non equilibrium conditions may increase the fire hazard associated with this product. Always bond receiving containers to the fill pipe before and during loading. Always confirm that receiving container is properly grounded. Bonding and grounding alone may be inadequate to eliminate fire and explosion hazards.

### **Information about fire - and explosion protection:**

Keep respiratory protective device available.

No special measures required.

### **Conditions for safe storage, including any incompatibilities**

#### **Storage:**

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool, and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Store in original container, keep closed in a secure location.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Respiratory protection:</b>	Use local exhaust or dilution ventilation.
<b>Hand protection:</b>	Chemical resistant gloves.
<b>Eye protection:</b>	Safety goggles.
<b>Skin protection:</b>	Use body-covering clothing.
<b>Working hygiene:</b>	Take usual precautions when handling. Workers should wash hands before eating, drinking, or smoking.
<b>Engineering Controls:</b>	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour, or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

### **Exposure Guidelines:**



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D Limonene: TWA (ACGIH) 30 ppm.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Physical and Chemical Properties

<u>Property</u>	<u>Values</u>	<u>Odour</u> <u>Odour Threshold</u> <u>Remarks/Method</u>	
Physical State	Liquid		
Appearance	Clear		Crisp Pleasant Citrus
Colour	Golden		No data available.
<b>pH</b>	Not applicable.	None known	
<b>Melting/Freezing Point</b>	No data available	None known	
<b>Boiling Point/Range</b>	No data available	None known	
<b>Flash Point</b>	50 C Tag closed cup	None known	
<b>Evaporation Rate</b>	No data available	None known	
<b>Flammability (solid, gas)</b>	Flammable	None known	
<b>Flammability Limit in Air:</b>			
Upper Limit	No data available	None known	
Lower Limit	No data available	None known	
<b>Vapour Pressure</b>	No data available	None known	
<b>Vapour density</b>	No data available	None known	
<b>Specific Gravity</b>	0.854 g/cm <sup>3</sup> (+/- 0.02)		
<b>Water Solubility</b>	Not Soluble	None known	
<b>Solubility Other Solvents</b>	No data available	None known	
<b>Partition Coefficient:</b>			
n-octanol/water	No data available	None known	
<b>Autoignition temperature</b>	No data available	None known	
<b>Decomposition Temperature</b>	No data available	None known	
<b>Viscosity</b>	Water Thin < 20 c St.		
<b>Explosive Properties</b>	No data available	None known	
<b>Oxidizing Properties</b>	No data available	None known	
<b>Other Properties:</b>			
<b>Softening Point</b>	No data available		
<b>VOC Content %</b>	No data available		
<b>Particle Size</b>	No data available		
<b>Particle Size Distribution</b>	No data available		

### 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	Stable at normal ambient temperature and pressure.
<b>Chemical stability</b>	No decomposition if stored and applied as directed.
<b>Conditions to avoid</b>	Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of



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<b>Hazardous decomposition products</b>	ignition. Do not allow vapour to accumulate in low or confined areas. Do not store with strong oxidizing agents.
<b>Materials to avoid</b>	Hazardous gases and vapours produced in fire are oxides of carbon.
<b>Hazardous polymerization</b>	Oxidizing agents Will not occur

### 11. TOXICOLOGICAL INFORMATION

#### Information on toxicological effects

##### Acute toxicity:

##### LD/LC50 values relevant for classification

**Routes of Entry** Inhalation, ingestion, eye, or skin contact

Oral: LD 50 > 4400 mg/kg

Dermal: LD 50 > 5000mg/kg

Inhalation: No data.

**On the skin:** Causes drying of the skin and irritation.

**On the eye:** May cause slight redness.

**Respiratory or Skin Sensitization:** D Limonene is classified as a skin sensitizer.

##### Additional toxicological information:

**Carcinogenicity:** Not classified as hazardous.

**Reproductive Toxicity:** Not classified as hazardous.

##### Specific Target Organ Toxicity

**Single Exposure:** Not classified as hazardous.

##### Specific Target Organ Toxicity

**Repeated Exposure:** Not classified as hazardous.

**Aspiration Hazard:** Classified as an aspiration hazard.

### 12. ECOLOGICAL INFORMATION

<b>Toxicity:</b>	Not classified
<b>Persistence and Degradability:</b>	Not available
<b>Bioaccumulative Potential:</b>	No data available
<b>Mobility in Soil:</b>	Not available.
<b>Other Adverse Effects</b>	
<b>Other Information:</b>	Avoid release to the environment.
<b>Aquatic Toxicity:</b>	No data available.
<b>Toxicity to algae, fish invertebrates</b>	No data available
<b>Biodegradation:</b>	No data available.

### 13. DISPOSAL

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, and international regulations.

**Ecology – Waste Materials:** Avoid release to the environment.

**Empty Containers:** Do not pierce, drill, or burn even after use. Container under pressure.

### 14. TRANSPORTATION INFORMATION



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**Canadian TDG (Road & Rail): Regulated Material  
Containers < 450L can be shipped limited quantity**

Proper Shipping Name: Combustible Liquid N.O.S.

Contains: Terpene Hydrocarbons

Hazard Class: 3

ID Number: UN 1993

Packing Group: III



**U.S. Department of Transportation (DOT): Regulated Material  
Containers < 450L can be shipped limited quantity**

Proper Shipping Name: Combustible Liquid N.O.S.

Contains: Terpene Hydrocarbons

Hazard Class: 3

ID Number: UN 1993

Packing Group: III



**Water Transportation (IMDG): Regulated Material  
Containers < 450L can be shipped limited quantity**

Proper Shipping Name: Combustible Liquid N.O.S.

Contains: Terpene Hydrocarbons

Hazard Class: 3

ID Number: UN 1993

Packing Group: III



**Air Transportation (IATA): Regulated Material**

Proper Shipping Name: Combustible Liquid N.O.S.

Contains: Terpene Hydrocarbons

Hazard Class: 3

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ID Number: UN 1993

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### 15. REGULATION

#### Occupational Health & Safety Regulations:

WHMIS 1988 Classification: Class B-Division 3. Class D - Division 2B.



OSHA & WHMIS: MSDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200) and Canadian WHMIS regulations (Controlled Products Regulations under the Hazardous Products Act).

#### International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	-
PICCS	-
AICS	Complies

#### Legend:

**TSCA** - All components of this product are listed or are exempt or excluded from listing on the United States Toxic Substances Control Act Section 8(b) Inventory.

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

#### U.S. State Regulations





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### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

### **HMIS III Rating:**

Health: 3 Hazard

Flammability: 2 Hazard

Physical: 0 Minimal Hazard

Personal Protection: B

SDS US (GHS HazCom 2012) SDS Canada (GHS WHMIS 2015)

### **16. OTHER INFORMATION**

**Prepared By:** Technical Department

**Issuing Date:** May 9, 2022

#### **Disclaimer:**

The manufacturer warrants that this product conforms to its standard specification when used according to direction. To the best of our knowledge the information contained herein is accurate. However, we do not assume accuracy or completeness of the information contained herein.

Final determination of the suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

**End of Safety Data Sheet**