



SAFETY DATA SHEET

CAPTIVE 8™

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

Identification of Preparation:	CAPTIVE 8™
Date of Safety Data Sheet:	May 11, 2022
Use of Preparation:	Grease Trap and Lift Station Maintainer.
Company Identification:	Mega-Lab Manufacturing Co. Ltd. 3-25 Planchet Road, Concord, Ontario. L4K 2C5
Company Emergency Telephone Number	Emergency Phone: 905 532-9000
Transportation Emergency Telephone Number	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.

P240: Ground/bond container and receiving equipment.

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- 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	80-100	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.
- 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.



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5. FIRE FIGHTING MEASURES

Suitable extinguishing media:	Use caution when applying carbon dioxide in confined spaces. SMALL FIRE: Steam, CO ₂ , 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:	Water jet.
Special exposure hazards	Fire or excessive heat may produce hazardous decomposition products.
Special safety equipment:	Self-contained positive pressure breathing apparatus and protective clothing.
Fire and explosion	Highly flammable liquid and vapour. 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 vapour/gas is heavier than air and will spread along the ground. Vapours 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 vapour 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

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:



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Put on appropriate personal protective equipment (see Section 8). Do not swallow. Avoid contact with eyes, skin, and clothing. Avoid breathing vapour 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

Respiratory protection:	Use local exhaust or dilution ventilation.
Hand protection:	Chemical resistant gloves.
Eye protection:	Safety goggles.
Skin protection:	Use body-covering clothing.
Working hygiene:	Take usual precautions when handling. Workers should wash hands before eating, drinking, or smoking.
Engineering Controls:	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:

D Limonene: TWA (ACGIH) 30 ppm.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical State	Liquid	Odour	Crisp Pleasant Citrus
Appearance	Clear	Odour Threshold	No data available.
Colour	Red	Remarks/Method	
Property	Values		
pH	Not applicable.	None known	
Melting/Freezing Point	No data available	None known	



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Boiling Point/Range	No data available	None known
Flash Point	51.0 C Tag closed cup	None known
Evaporation Rate	No data available	None known
Flammability (solid, gas)	Flammable	None known
Flammability Limit in Air:		
Upper Limit	No data available	None known
Lower Limit	No data available	None known
Vapour Pressure	No data available	None known
Vapour density	No data available	None known
Specific Gravity	0.84 g/cm ³ (+/- 0.2)	
Water Solubility	Not Soluble.	None known
Solubility Other Solvents	No data available	None known
Partition Coefficient:		
n-octanol/water	No data available	None known
Autoignition temperature	No data available	None known
Decomposition Temperature	No data available	None known
Viscosity	Water Thin < 20 c St.	
Explosive Properties	No data available	None known
Oxidizing Properties	No data available	None known

Other Properties:

Softening Point	No data available
VOC Content %	No data available
Particle Size	No data available
Particle Size Distribution	No data available

10. STABILITY AND REACTIVITY

Reactivity	Stable at normal ambient temperature and pressure.
Chemical stability	No decomposition if stored and applied as directed.
Conditions to avoid	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 ignition. Do not allow vapour to accumulate in low or confined areas. Do not store with strong oxidizing agents.
Hazardous decomposition products	Hazardous gases and vapours produced in fire are oxides of carbon.
Materials to avoid	Oxidizing agents
Hazardous polymerization	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.



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On the eye: Causes pain and 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: Not an aspiration hazard.

12. ECOLOGICAL INFORMATION

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

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

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

Contains: Terpene Hydrocarbons

Hazard Class: 3



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ID Number: UN 1993

Packing Group: III



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

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

Contains: Terpene Hydrocarbons

Hazard Class: 3

ID Number: UN 1993

Packing Group: III



15. REGULATION

Occupational Health & Safety Regulations:

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



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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

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 11, 2022

Revision Date: None

Disclaimer:



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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