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## MATERIAL SAFETY DATA SHEET

### Product Name: ICYNENE LD-C-50™ RESIN

#### Section 1: Chemical, Product and Company Information

<u>Product Name:</u>	ICYNENE LD-C-50™ Resin Also known as Gold Seal®, Component "B" ICYNENE LD-C-50™ is a trademark of Icynene Inc. Gold Seal® is a registered trademark of Icynene Inc.
<u>Product Use:</u>	Blend of polymeric resins and additives that react with polymeric MDI to create LD-C-50™, a semi-rigid open cell polyurethane foam insulation.
<u>Product Code:</u>	ICYNENE LD-C-50™- RESIN
<u>Revision Date:</u>	March 7, 2011

#### Section 2: Composition and Ingredient Information

Alkanolamine	Trade secret, hazardous
Alkylamine	Trade secret, hazardous
Hazardous Material Information Review Commission Registry Number No. 6626. Date of decision granting exemption: May 15, 2006.	

#### Section 3: Hazards Identification

<u>Skin Contact:</u>	Irritant to the skin.
<u>Eye Contact:</u>	Irritant to the eyes

#### Section 4: First Aid Measures

<u>Eyes:</u>	Wash gently with flowing water for 20-30 minutes or until the chemical is removed. Eyelids should be held open while irrigating the eyes. Take care not to wash contaminated water into the unaffected eye or face. Consult medical personnel.
<u>Skin:</u>	Wash with gently flowing water for 20-30 minutes or until the chemical is removed. Take care not to rinse contaminated water onto unaffected skin. Contaminated clothing should be removed under running water. Consult medical personnel.
<u>Inhalation:</u>	Remove to fresh air. If not breathing, give mouth-to-mouth resuscitation. If breathing is difficult then give oxygen. If the heart has stopped, trained personnel should immediately begin CPR. Consult a physician. There has been no clinical experience with overexposure via the respiratory route.

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**Ingestion:** Do not induce vomiting. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. If breathing or the heart has stopped, trained personnel should immediately begin artificial respiration or CPR. Consult a physician immediately.

<b>Section 5: Fire Fighting Measures</b>	
<b><u>Flash Point:</u></b>	Not Available
<b><u>Method Used:</u></b>	N.Av.
<b><u>Flammable Limits:</u></b>	
<b>LFL:</b>	N.Av.
<b>UFL:</b>	N.Av.
<b><u>Extinguishing Media:</u></b>	Water, carbon dioxide, dry chemical or foam. Expended liquids upon the aftermath of fire should be contained for disposal. Prevent contamination of streams and drinking supplies.
<b><u>Explosion Hazards:</u></b>	Not sensitive to static or mechanical impact. Additional conditions that may lead to explosion are not available.
<b><u>Fire Hazards:</u></b>	Sudden reaction and fire may result when the product is mixed with an oxidizing agent. Sudden reaction and fire may result when the product is mixed with an isocyanate.
<b><u>Hazardous Combustion Products</u></b>	Hazardous combustion products would include oxides of carbon, nitrogen and phosphorous and acid halides.
<b><u>Fire Fighting Equipment:</u></b>	In confined areas, firefighters must wear a self-contained breathing apparatus to avoid breathing vapors, carbon monoxide and nitrogen oxide gases generated by combustion. Skin contact should be avoided.

<b>Section 6: Accidental Release Measures</b>	
<b><u>Action to Take for Spills/Leaks:</u></b>	Dike spills to prevent spreading and contamination of surface waters, ground waters and drinking supplies. Notify local health authorities and other appropriate agencies if such contamination should occur.

<b>Section 7: Handling and Storage</b>	
	Must be protected from overheating and should ideally be stored at temperatures between 60°F-90°F (15°C-32°C). It should definitely be kept below 100°F (38°C) as exposure to temperatures above 100°F (38°C) accelerates material degradation, but does not create a hazardous decomposition product. It is advisable to keep the storage temperatures as low as possible within the above range, store the drums in a well ventilated area, and protect them from direct sunlight. Since component B can separate during storage, it should be mixed thoroughly prior to use, especially at higher temperature levels.

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**Section 8: Exposure Controls/Personal Protection**

- Respiratory Protection:** Generally, respiratory protection is unnecessary provided there is adequate general ventilation. In poorly ventilated areas, a cartridge mask (National Institute for Occupational Safety and Health {NIOSH}) – approved for organic vapors is recommended. During emergencies, a self-contained breathing apparatus should be worn.
- Skin Protection:** Avoid contact with the skin. Cuffed neoprene or butyl rubber gloves (or other impervious materials) are recommended. Wash hands thoroughly after handling or exposure. Launder or discard contaminated clothing. Discard contaminated leather articles.
- Eye Protection:** Avoid contact with the eyes. Eye protection in the form of chemical safety goggles is recommended.

**Section 9: Physical and Chemical Properties**

<b><u>Boiling Point:</u></b>	Not Available
<b><u>Vapour Pressure:</u></b>	Not Available
<b><u>Freezing Point:</u></b>	0°C
<b><u>Vapour Density:</u></b>	Not Available
<b><u>Soluble in Water:</u></b>	Miscible
<b><u>Appearance:</u></b>	white liquid
<b><u>Specific Gravity:</u></b>	1.1 @ 25°C
<b><u>Odour:</u></b>	Light ammonia
<b><u>pH:</u></b>	11
<b><u>Viscosity:</u></b>	700 cps @ 25°C
<b><u>Coefficient of Water/Oil Distribution</u></b>	Not Available

**Section 10: Stability and Reactivity**

- Stability:** Stable under recommended storage conditions.
- Incompatibility:** (Specific materials to avoid) Reacts with strong acids, isocyanates and oxidizing agents.
- Hazardous Decomposition Products:** Shelf life off product is six months. High heat or fire: nitric acid, ammonia, nitrogen oxides (NOx), carbon monoxide, carbon dioxide.
- Hazardous Polymerization:** May occur on contact with isocyanates.

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<b>Section 11:</b>	<b>Toxicological Information</b>
<b><u>Skin Contact:</u></b>	Irritant to the skin.
<b><u>Skin Absorption:</u></b>	The LD <sub>50</sub> for skin absorption in rabbits is 2,111 mg/kg (calculated).
<b><u>Eye:</u></b>	Irritant to the eyes.
<b><u>Systemic &amp; Other Effects:</u></b>	<p>It is assumed by OSHA that an untested mixture presents the same health hazard as do the components that are present at one percent or a greater level.</p> <p>Health hazard information for all components in their pure form is therefore included as part of the MSDS.</p> <p>Contact with the eyes or skin may cause severe irritation and pain. Prolonged contact may result in chemical burns and permanent damage.</p> <p>Material vapor in low concentrations can cause lacrimation, conjunctivitis and corneal edema when absorbed into the tissue of the eye from the atmosphere. Corneal edema may give rise to a perception of "blue haze" or "fog" around lights. The effect is temporary and has no known residual effect.</p> <p>Inhalation of vapors may cause irritation of the respiratory tract. Coughing and chest pain may result.</p> <p>Repeated and/or prolonged exposure to low concentrations of vapor may cause sore throat, eye irritation, nausea, faintness and/or headache that are temporary.</p> <p>Repeated and/or prolonged exposure at low levels may result in adverse respiratory effects, adverse skin effects or adverse eye effects.</p> <p>Medical conditions generally aggravated by exposure are:</p> <ul style="list-style-type: none"><li>- asthma</li><li>- skin disorders and allergies</li><li>- eye disease</li><li>- chronic respiratory disease (bronchitis, emphysema)</li></ul>
<b><u>Ingestion:</u></b>	Single dose oral toxicity oral LD <sub>50</sub> for rats is 1,984 mg/kg (calculated).
<b><u>Inhalation:</u></b>	May cause respiratory sensitization in susceptible individuals. If heated or sprayed as an aerosol, excessive concentrations are attainable that could be hazardous. Excessive exposure may cause irritation of the eyes, upper respiratory tract and lungs.
	Literature reports an inhalation LC <sub>50</sub> value for alkanolamine as 1641 ppm (4-hour, rat).

<b>Section 12:</b>	<b>Ecological Information/Environmental Fate</b>
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Not available.

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**Section 13:**

**Spill, Leak and Disposal Procedures**

- Major Spill:** Call Icynene Inc. (800) 758-7325. If transportation spill involved call CANUTEC (613) 996-6666
- Minor Spill:** Absorb the resin with sawdust or other absorbent. Scoop up solid absorbent for waste disposal. The area should then be washed down to dilute and remove the remaining traces of material. Alternatively, small surface spills of resin may be reacted with isocyanate. This is a non-hazardous, controlled, "neutralization" type reaction.
- Disposal Method:** Follow all federal, provincial, state and local regulations.

**Section 14:**

**Transport Information**

- Road:** Not regulated under TDG.
- Rail or Vessel (ship):** Product in containers must be prevented from movement i.e. "blocked".
- Air:** "Non-DG" (Dangerous Goods), however consult specific air carrier as special packaging instructions often apply.

**Section 15:**

**Regulatory Information**

**CANADA:**

- CPR** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

**WHMIS:**

Classification: Class D2A

**USA:**

- State Regulations:** California Prop. 65: No ingredients listed.

**Toxic Substances Control Act (TSCA): All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.**

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**Section 16: Other Information**

**Manufacturer Disclaimer:**

*While the information and recommendations in this publication are to the best of our knowledge, information and belief accurate at the date of publication, NOTHING HEREIN IS TO BE CONSTRUED AS A WARRANTY, EXPRESS OR OTHERWISE.*

*IN ALL CASES, IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE APPLICABILITY OF SUCH INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF ANY PRODUCT FOR ITS OWN PARTICULAR PURPOSE.*

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**PREPARATION INFORMATION:**

**Revision Date:** March 7, 2011

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