



MATERIAL SAFETY DATA SHEET

Product Name: LD-R-50[®] Component 'B'

MSDS B-205

Section 1: Chemical, Product and Company Information

Product Name: LD-R-50[®]
LD-R-50[®] is a registered trademark of Icyne Inc.

Product Use: Spray Foam Insulation

Product Code: COMPONENT "B"

Revision Date: Feb. 20/2009

Section 2: Composition and Ingredient Information

Alkanolamines and Alkylamines (Trade Secret)	0.5 – 10%
Castor Oil CAS 8001-79-4	10-40%

Section 3: Hazards Identification

Skin Contact: Irritant to the skin

Eye Contact: Irritant to the eyes

Section 4: First Aid Measures

Eyes: Wash with gently 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.

Skin: 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.

Inhalation: 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.

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.

MATERIAL SAFETY DATA SHEET

Product Name: LD-R-50[®] Component 'B'

MSDS B-205

Section 5: Fire Fighting Measures

<u>Flash Point & Method:</u>	Not determined
<u>Method Used:</u>	N/A
<u>Flammable Limits:</u>	
LFL:	Not determined
UFL:	Not determined
<u>Extinguishing Media:</u>	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.
<u>Fire & Explosion Hazards:</u>	None known
<u>Auto Ignition Temperature:</u>	Not determined
<u>Fire Fighting Equipment:</u>	In confined areas, firefighters must wear a self-contained breathing apparatus to avoid breathing vapors, carbon monoxide and nitrogen oxide fumes generated by combustion. Hazardous combustion products would include oxides of carbon, nitrogen and phosphorous and acid halides.

Section 6: Accidental Release Measures

<u>Action to Take for Spills/Leaks:</u>	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.
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Section 7: Handling and Storage

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 accelerates material degradation. 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.

Section 8: Exposure Controls/Personal Protection

<u>Respiratory Protection:</u>	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.
<u>Eye Protection:</u>	Avoid contact with the eyes. Eye protection in the form of chemical safety goggles is highly recommended.

MATERIAL SAFETY DATA SHEET

Product Name: LD-R-50[®] Component 'B'

MSDS B-205

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.

Section 9: Physical and Chemical Properties

<u>Boiling Point:</u>	Not determined
<u>Vapour Pressure:</u>	Not determined
<u>Vapour Density:</u>	Not determined
<u>Soluble in Water:</u>	Miscible
<u>Appearance:</u>	Yellow liquid
<u>Specific Gravity:</u>	1.1 @ 25 °C
<u>Odour:</u>	Light Ammonia
<u>pH:</u>	11
<u>Viscosity:</u>	1000 cps @ 25°C

Section 10: Stability and Reactivity

Stability: (Condition to avoid) Stable under recommended storage conditions.

Incompatibility: (Specific materials to avoid) Reacts with strong acids and isocyanates.

Hazardous Decomposition Products: Carbon dioxide, carbon monoxide and nitrogen oxide.

Hazardous Polymerization: May occur on contact with isocyanates.

Section 11: Toxicological Information

Skin Contact: Irritant to the skin.

Skin Absorption: Not determined.

Eye Contact: Irritant to the eyes.

Systemic & Other Effects: Contact with the eyes or skin may cause severe irritation and pain. Prolonged contact may result in chemical burns and permanent damage.

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 transient and has no known residual effect.

Inhalation of vapours may cause irritation of the respiratory tract. Coughing and chest pain may result.

MATERIAL SAFETY DATA SHEET

Product Name: LD-R-50[®] Component 'B'

MSDS B-205

Repeated and/or prolonged exposure at low levels may result in adverse respiratory effects, adverse skin effects or adverse eye effects.

Medical conditions generally aggravated by exposure are:

- asthma
- skin disorders and allergies
- eye disease
- chronic respiratory disease (bronchitis, emphysema)

Ingestion: Not determined

Inhalation: Inhalation of vapors may cause irritation of the respiratory tract. Coughing and chest pain may result.

Section 12: Ecological Information

Not available.

Section 13: Spill, Leak and Disposal Procedures

Major Spill: Call Icynene Inc. (800) 758-7325. If transportation spill is 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.

MATERIAL SAFETY DATA SHEET

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MSDS B-205

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.

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.

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PREPARATION INFORMATION:

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