

# SAFETY DATA SHEET

## Section 1: Identification of the substance/mixture and of the company/undertaking

### Product identifier

Trade name or designation of the mixture ICYNENE LD-C-50™ B-Side Resin

Synonyms None.

Date of first issue 10-August-2011

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Revision date - Supersedes date -

### Relevant identified uses of the substance or mixture and uses advised against

Identified uses To be used in on-site spray foam application by mixing with polymeric methylene di-isocyanate (A-Side polyisocyanate, Base Seal™).

Uses advised against None known.

### Details of the supplier of the safety data sheet

#### Supplier

Company name GMS Renewable Products

Address Ireland

#### Manufacturer

Company name Icynene Inc.

Address 6747 Campobello Road,  
Mississauga, Ontario, L5Z 2L7  
Canada

Telephone 1-800-758-7325 or 905-363-4040

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Contact person Icynene

Emergency telephone CANUTEC 613-996-6666, EST, available 24/7

## Section 2: Hazards identification

### Classification of the substance or mixture

#### Classification according to Directive 67/548/EEC or 1999/45/EC as amended

Classification Xn;R22, Xi; R36/38, R42, R43, 52-53

### Hazard summary

Physical hazards Not classified for physical hazards.

Health hazards Harmful if swallowed. Irritating to eyes and skin. May cause sensitisation by skin contact.

Environmental hazards Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Specific hazards Irritating to eyes and skin. Irritating to mouth, throat, and stomach. May cause respiratory tract irritation.

Main symptoms Irritating to mouth, throat, and stomach.

### Label elements

#### Label according to Directive 67/548/EEC or 1999/45/EC as amended

Contains: N'-[3-(dimethylamino)propyl]-N,N-dimethylpropane-1,3-diamine, Tris (1-chloro-2-propyl) phosphate

Harmful



### R-phrases

R22 Harmful if swallowed.  
R36/38 Irritating to eyes and skin.  
R43 May cause sensitisation by skin contact.  
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### S-phrases

S23 Do not breathe gas/fumes/vapour/spray.  
S24/25 Avoid contact with skin and eyes.  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S36/37 Wear suitable protective clothing and gloves.  
S60 This material and its container must be disposed of as hazardous waste.

Supplemental label information None.

Other hazards Not assigned.

### Section 3: Composition/information on ingredients

#### Mixture

#### General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Tris (1-chloro-2-propyl) phosphate	30 - 70	13674-84-5 237-158-7	17-2119396622-32-0000		
<b>Classification:</b>	Xn;R22				
N'-[3-(dimethylamino)propyl]-N,N-dimethylpropane-1,3-diamine	3 - 10	6711-48-4 229-761-9	17-2119396699-11-0000		
<b>Classification:</b>	Xn;R22, R36/38, R43, N;R51-53				

**Composition comments** The full text for all R-phrases is displayed in Section 16. All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

### Section 4: First aid measures

**General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

#### Description of first aid measures

- Inhalation** Move to fresh air. If breathing is difficult, give oxygen. Get medical attention, if needed.
- Skin contact** Remove contaminated clothes and rinse skin thoroughly with water for at least 15 minutes. Get medical attention if irritation develops or persists.
- Eye contact** Remove any contact lenses and open eyes wide apart. Get medical attention if irritation develops or persists.
- Ingestion** Have victim rinse mouth thoroughly with water. Do not induce vomiting without advice from control centre. Do not use mouth-to-mouth method if victim ingested the substance. If ingestion of a large amount does occur, call a poison control centre immediately.

**Most important symptoms and effects, both acute and delayed** Irritation of eyes and mucous membranes. Skin irritation. Irritation of nose and throat may occur.

**Indication of any immediate medical attention and special treatment needed** Treat symptomatically.

### Section 5: Firefighting measures

**General fire hazards** The product is not flammable.

#### Extinguishing media

- Suitable extinguishing media** Carbon dioxide, regular foam, dry chemical, water spray, or water fog.
- Unsuitable extinguishing media** None known.

**Special hazards arising from the substance or mixture** Fire or high temperatures create: Carbon oxides. Nitrogen oxides. Phosphorus oxides.

#### Advice for firefighters

- Special protective equipment for firefighters** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
- Special firefighting procedures** Move containers from fire area if you can do it without risk. Prevent runoff from fire control or dilution from entering streams, sewers or drinking water supply.

### Section 6: Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering. Avoid inhalation of vapours and contact with skin and eyes. Wear protective clothing as described in Section 8 of this MSDS.

**For emergency responders** Use personal protection as recommended in section 8 of the SDS.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

**Methods and material for containment and cleaning up** Keep unnecessary personnel away.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use.

**Reference to other sections** For personal protection, see section 8. For waste disposal, see section 13.

## Section 7: Handling and storage

**Precautions for safe handling** Avoid inhalation of vapors and contact with skin, eyes and clothing. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site.

**Conditions for safe storage, including any incompatibilities** Protect from direct sunlight. Store between 15°C (60°F) and 32°C (90°F) to avoid separation and prolong shelf life. Do not store with strong acids, bases and isocyanates.

**Specific end use(s)** Not available.

## Section 8: Exposure controls/personal protection

### Control parameters

**Recommended monitoring procedures** Follow standard monitoring procedures.

**DNEL** Not available.

**PNEC** Not available.

### Exposure controls

**Appropriate engineering controls** Ensure adequate ventilation, especially in confined areas. Provide easy access to water supply and eye wash facilities.

### Individual protection measures, such as personal protective equipment

**General information** Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

**Eye/face protection** Chemical goggles are recommended.

#### Skin protection

##### - Hand protection

Wear protective gloves. Neoprene or butyl rubber gloves are recommended.

##### - Other

Wear suitable protective clothing.

#### Respiratory protection

No personal respiratory protective equipment normally required. In case of inadequate ventilation or risk of inhalation of vapours, use suitable respiratory equipment with combination filter (type A2/P2).

#### Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

### Hygiene measures

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned. Do not eat, drink or smoke when using the product. Handle in accordance with good industrial hygiene and safety practices.

**Environmental exposure controls** Not available.

## Section 9: Physical and chemical properties

### Information on basic physical and chemical properties

**Appearance** White liquid.

**Physical state** Liquid.

**Form** Liquid.

**Colour** White

**Odour** Amine-like.

**Odour threshold** Not available.

**pH** 11

**Melting point/freezing point** Not available.

<b>Boiling point, initial boiling point, and boiling range</b>	Not available.
<b>Flash point</b>	> 93 °C (> 199,4 °F)
<b>Auto-ignition temperature</b>	Not applicable.
<b>Flammability (solid, gas)</b>	Not available.
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Oxidising properties</b>	Not applicable.
<b>Explosive properties</b>	Not applicable.
<b>Explosive limit</b>	Not applicable.
<b>Vapour pressure</b>	Not applicable.
<b>Vapour density</b>	Not applicable.
<b>Evaporation rate</b>	Not applicable.
<b>Relative density</b>	1,1
<b>Relative density temperature</b>	25 °C (77 °F)
<b>Solubility (water)</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	700 cP
<b>Viscosity temperature</b>	25 °C (77 °F)
<b>Percent volatile</b>	Not available.
<b>Other data</b>	
<b>Miscible (water)</b>	Partially miscible
<b>Other information</b>	No relevant additional information available.

## Section 10: Stability and reactivity

<b>Reactivity</b>	Reacts with strong acids, isocyanates and oxidizing agents.
<b>Chemical stability</b>	Stable at normal conditions.
<b>Possibility of hazardous reactions</b>	Polymerization may occur on contact with isocyanates.
<b>Conditions to avoid</b>	Heat and direct sunlight.
<b>Incompatible materials</b>	Strong oxidising agents. Isocyanates Strong acids.
<b>Hazardous decomposition products</b>	Fire or high temperatures create: Ammonia. Nitric acid Carbon oxides. Nitrogen Oxides.

## Section 11: Toxicological information

<b>General information</b>	Occupational exposure to the substance or mixture may cause adverse effects.
<b>Information on likely routes of exposure</b>	
<b>Ingestion</b>	Ingestion may cause irritation and malaise.
<b>Inhalation</b>	May cause irritation to the respiratory system.
<b>Skin contact</b>	Irritating to skin.
<b>Eye contact</b>	Irritating to eyes.
<b>Symptoms</b>	Irritation of eyes and mucous membranes. Skin irritation. Irritation of nose and throat.
<b>Information on toxicological effects</b>	
<b>Acute toxicity</b>	Causes skin and eye irritation. May cause respiratory tract irritation.
<b>Skin corrosion/irritation</b>	Irritating to skin.
<b>Serious eye damage/eye irritation</b>	Irritating to eyes.
<b>Respiratory sensitisation</b>	May cause inhalation hypersensitivity (occupational asthma) in sensitive individuals.
<b>Skin sensitisation</b>	Not classified.
<b>Germ cell mutagenicity</b>	Not classified.
<b>Carcinogenicity</b>	Not classified.

<b>Reproductive toxicity</b>	Not classified.
<b>Specific target organ toxicity - single exposure</b>	Not available.
<b>Specific target organ toxicity - repeated exposure</b>	Not available.
<b>Aspiration hazard</b>	Not classified.
<b>Mixture versus substance information</b>	Not available.
<b>Other information</b>	This product has no known adverse effect on human health.

## Section 12: Ecological information

<b>Toxicity</b>	No toxicity data noted for the ingredient(s).
<b>Persistence and degradability</b>	No data is available on the degradability of this product.
<b>Bioaccumulative potential</b>	No data available.
<b>Mobility</b>	No data available.
<b>Environmental fate - Partition coefficient</b>	Not available.
<b>Mobility in soil</b>	No data available.
<b>Results of PBT and vPvB assessment</b>	No data available.
<b>Other adverse effects</b>	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## Section 13: Disposal considerations

<b>Waste treatment methods</b>	
<b>Residual waste</b>	Dispose in accordance with all applicable regulations.
<b>Contaminated packaging</b>	Since emptied containers may retain product residue, follow label warnings even after container is emptied.
<b>EU waste code</b>	08 04 09*
<b>Disposal methods/information</b>	This material and its container must be disposed of as hazardous waste. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. Do not dispose of waste into sewer. Do not discharge into drains, water courses or onto the ground. Dispose of contents/container in accordance with local/regional/national/international regulations.

## Section 14: Transport information

### ADR

The product is not covered by international regulation on the transport of dangerous goods.

### RID

The product is not covered by international regulation on the transport of dangerous goods.

### ADN

The product is not covered by international regulation on the transport of dangerous goods.

### IATA

The product is not covered by international regulation on the transport of dangerous goods.

### IMDG

The product is not covered by international regulation on the transport of dangerous goods.

**Transport in bulk according to** Not applicable.

**Annex II of MARPOL73/78 and the IBC Code**

## Section 15: Regulatory information

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

### EU Regulations

**Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex I**

Not listed.

**Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex II**

Not listed.

**Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V**

Not listed.

**Directive 96/61/EC concerning integrated pollution prevention and control (IPPC): Article 15, European Pollution Emission Registry (EPER)**

Not listed.

**Regulation (EC) No. 1907/2006, REACH Article 59(1). Candidate List**

Not listed.

<b>Other regulations</b>	This preparation is classified as dangerous according to Directive 1999/45/EC and its amendments. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.
<b>National regulations</b>	Follow national regulation for work with chemical agents.
<b>Chemical safety assessment</b>	No Chemical Safety Assessment has been carried out.

## Section 16: Other information

<b>List of abbreviations</b>	DNEL: Derived No-Effect Level. PNEC: Predicted No-Effect Concentration. PBT: Persistent, bioaccumulative and toxic. vPvB: Very Persistent and very Bioaccumulative.
<b>References</b>	Not available.
<b>Information on evaluation method leading to the classification of mixture</b>	The mixture is classified based on test data for physical hazards. The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available. For details, refer to Sections 9, 11 and 12.
<b>Wording of the R-phrases in sections 2 and 3</b>	R22 Harmful if swallowed. R36/38 Irritating to eyes and skin. R43 May cause sensitisation by skin contact. R51 Toxic to aquatic organisms. R52 Harmful to aquatic organisms. R53 May cause long-term adverse effects in the aquatic environment.
<b>Training information</b>	Follow training instructions when handling this material.
<b>Disclaimer</b>	The information in the sheet was written based on the best knowledge and experience currently available.
<b>Issue date</b>	10-August-2011
<b>Revision date</b>	10-August-2011
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