1. Identification

Jamrac Corporation  
332 South Windsor Drive  
Arlington Heights, IL 60004  
USA  

TRANSPORTATION EMERGENCY  
CALL JAMRAC CORPORATION: +1 (520) 977-7014  

NON-TRANSPORTATION EMERGENCY  
CALL JAMRAC CORPORATION: +1 (520) 977-7014  

Product Name: Barreleye Part B  
Material Number: 12BE0003B  
Chemical Family: Aspartic Ester  
Use: Formulated Resin for laminating or coating foam composites in industrial applications  
Restrictions on Use: Do-It-Yourself, Medical Applications

2. Hazards Classification

GHS Classification  
Skin Sensitization Category 1  
Harmful to Aquatic Life Category 1

GHS Label Elements  
Signal Word  
Warning  
Hazard Statements  
May cause an allergic skin reaction  
Harmful to aquatic life with long-lasting effects.

Precautionary Statements:  
Prevention  
Avoid breathing dust, mist, gas, vapors or spray.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves, protective clothing, eye protection, face protection.
Response
In case of fire, use carbon dioxide, dry chemical or foam for extinction.
IF ON SKIN (or hair), remove or take off immediately all contaminated clothing. Rinse skin with water or shower.
IF INHALED, remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF SWALLOWED, immediately call a POISON CENTER or doctor/physician.
IF IN EYES, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Do NOT induce vomiting.
If skin irritation occurs, get medical advice/attention.
If eye irritation persists, get medical advice/attention.
Take off contaminated clothing and wash before reuse.
In case of fire, use carbon dioxide, dry chemical or alcohol-resistant foam for extinction.

Storage
Store in a well-ventilated place. Keep container tightly closed.

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3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Weight percent</th>
<th>Components</th>
<th>CAS-No.</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>60 - 100%</td>
<td>Aspartic Ester</td>
<td>136210-30-5</td>
<td>Skin Sensitization Category 1</td>
</tr>
</tbody>
</table>

The specific chemical identity and/or exact percentage of component(s) have been withheld as a trade secret.

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4. First Aid Measures

Most Important Symptom(s)/Effect(s)

**Acute:** May cause allergic skin reaction with symptoms of reddening, itching, swelling, and rash. May cause skin irritation with symptoms of reddening, itching, and swelling. May cause eye irritation with symptoms of reddening, tearing, stinging, and swelling. May cause respiratory tract irritation with symptoms of coughing, sore throat and runny nose.

**Eye Contact:** In case of contact, flush eyes with plenty of lukewarm water. Use fingers to make certain that eyelids are separated and that they eye is being irrigated. Get medical attention if irritation develops.

**Skin Contact:** In case of skin contact, wash affected areas with soap and water. Immediately remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation develops.
5. Firefighting Measures

Suitable Extinguishing Media: All extinguishing media are suitable.

Unsuitable Extinguishing Media: No Data Available

Fire Fighting Procedure
Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes. Use cold water spray to cool fire-exposed containers to minimize the risk of rupture.

Hazardous Decomposition Products
By Fire and Thermal Decomposition: Carbon oxides, Nitrogen oxides (NOx), Amines, other aliphatic fragments which have not been determined, Ammonia gas may be liberated at high temperatures.

Unusual Fire/Explosion Hazards
Toxic and irritating gases/fumes may be given off during burning or thermal decomposition.

6. Accidental Release Measures

Spill and Leak Procedures
Evacuate and keep unnecessary people out of spill area. Cleanup personnel must use appropriate personal protective equipment. Cover spill with inert material (e.g., dry sand or earth) and collect for proper disposal. Prevent from entering open drains and waterways. Ventilate area to remove vapors or dust.

7. Handling and Storage

Handling/Storage Precautions
Avoid contact with skin or clothing. Avoid contact with eyes. Use only with adequate ventilation/personal protection. Wash thoroughly after handling. Keep container closed when not in use. Do not breathe vapours or spray mist. Store in a dry place away from excessive heat. Material is hygroscopic and may absorb small amounts of atmospheric moisture. Do not reseal container if contamination is suspected.

Storage Period:
6 Months: after receipt of material by customer

Storage Temperature Minimum: 0 °C (32 °F) Maximum: 40 °C (104 °F)

Storage Conditions
Store separate from food products.

Employee education and training in the safe use and handling of this product are required under the OSHA Hazard Communication Standard 29 CFR 1910.1200.
Employee education and training in the safe use and handling of this product are required under the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Substances to Avoid
Oxidizing agents, Acids, Isocyanates

8. Exposure Controls/Personal Protection

Any component which is listed in section 3 and is not listed in this section does not have a known ACGIH TLV, OSHA PEL or supplier recommended occupational exposure limit.

Industrial Hygiene/Ventilation Measures
General dilution and local exhaust ventilation as necessary to control airborne vapors, aerosols (e.g., dusts, mists) and thermal decomposition products. Heating may result in generation of airborne vapors and/or aerosols.

Respiratory Protection
If vapors form, respiratory protection is recommended. The use of a positive pressure supplied air respirator is recommended if the airborne concentration is unknown or if spraying is performed in a confined space or area with limited ventilation. In spray applications, an organic vapor/particulate respirator or air supplied unit is necessary.

Hand Protection
Permeation resistant gloves, Viton gloves, 4H laminate gloves, Butyl rubber gloves, Nitrile rubber gloves.

Eye Protection
Chemical safety goggles or safety glasses with side-shields, Chemical safety goggles in combination with a full face shield if a splash hazard exists.

Skin Protection
Avoid all skin contact. Depending on the conditions of use, cover as much of the exposed skin area as possible with appropriate clothing to prevent skin contact. Where spray mist/vapor is anticipated, permeation resistant clothing is recommended.

Additional Protective Measures
Employees should wash their hands and face before eating, drinking, or using tobacco products. Educate and train employees in the safe use and handling of this product. Emergency showers and eye wash stations should be available.

9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>State of Matter</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Light Yellow</td>
</tr>
<tr>
<td>Odor</td>
<td>Mild</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No Data Available</td>
</tr>
<tr>
<td>pH</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Melting Point</td>
<td>ca. -2 °C (28.4 °F) (EG A1)</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>@ 1,013 hPa (EG A2) not applicable, decomposition</td>
</tr>
<tr>
<td>Flash Point</td>
<td>ca. 100 °C (212 °F) @ 1,013 hPa (DIN EN 22719)</td>
</tr>
<tr>
<td>Property</td>
<td>Value</td>
</tr>
<tr>
<td>-----------------------------------</td>
<td>----------------------------------------------------------------------</td>
</tr>
<tr>
<td>Evaporation Rate:</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Lower Explosion Limit:</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Upper Explosion Limit:</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Vapor Pressure:</td>
<td>Approximately 20 mbar @ 55 °C (131 °F)</td>
</tr>
<tr>
<td></td>
<td>Approximately 17 mbar @ 50 °C (122 °F)</td>
</tr>
<tr>
<td></td>
<td>Approximately 8 mbar @ 20 °C (68 °F)</td>
</tr>
<tr>
<td>Vapor Density:</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Density</td>
<td>ca. 1.08 g/cm³ @ 20 °C (68 °F) (DIN 51757)</td>
</tr>
<tr>
<td>Relative Vapor Density:</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Specific Gravity:</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Solubility in Water:</td>
<td>Insoluble</td>
</tr>
<tr>
<td>Partition Coefficient: n-octanol/water:</td>
<td>logPow: ca. 5.16 @ 20 °C (68 °F) (value calculated)</td>
</tr>
<tr>
<td>Auto-ignition Temperature:</td>
<td>ca. 375 °C (707 °F) @ 1,013 hPa (DIN 51794)</td>
</tr>
<tr>
<td>Decomposition Temperature:</td>
<td>ca. 234 °C (453.2 °F)</td>
</tr>
<tr>
<td>Dynamic Viscosity:</td>
<td>ca. 2,030 mPa.s @ 20 °C (68 °F) (DIN EN ISO 3219/A.3)</td>
</tr>
<tr>
<td>Kinematic Viscosity:</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Bulk Density:</td>
<td>Not corrosive to metals</td>
</tr>
<tr>
<td>Self Ignition:</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

### 10. Stability and Reactivity

**Hazardous Reactions**
Hazardous Polymerization does not occur

**Stability**
Stable

**Materials to Avoid**
Oxidizing agents, Acids, Isocyanates

**Conditions to Avoid**
Avoid extreme heat

**Hazardous Decomposition Products**
By Fire and Thermal Decomposition: Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NOₓ), amines, other aliphatic fragments which have not been determined, ammonia gas may be liberated at high temperatures

### 11. Toxicological Information

**Likely Routes of Exposure:**
- Skin Contact
- Eye Contact
- Ingestion
- Inhalation
Health Effects and Symptoms

Acute: May cause allergic skin reaction with symptoms of reddening, itching, swelling, and rash., May cause skin irritation with symptoms of reddening, itching, and swelling., May cause eye irritation with symptoms of reddening, tearing, stinging, and swelling., May cause respiratory tract irritation with symptoms of coughing, sore throat and runny nose.

Chronic: Not expected to cause adverse chronic health effects.

Toxicity Data for Barreleye Part B

Acute Oral Toxicity
Acute toxicity estimate: > 5000 mg/kg (Calculation method)

Toxicity Data for Aspartic Ester
Toxicity
Note Toxicity data is based on a similar product.

Acute Oral Toxicity

Acute Inhalation Toxicity
LC50: > 4.224 mg/l, 4 h, dust/mist (rat, male/female) (OECD Test Guideline 403) Toxicological studies of a comparable product.

Acute Dermal Toxicity

Skin Irritation
OECD Test Guideline 404, slight irritant

Eye Irritation
rabbit, OECD Test Guideline 405, Slightly irritating
Toxicological studies of a comparable product.
Rat, Effect on the respiratory tract: slight irritant

Sensitization
Skin sensitisation according to Magnusson/Kligmann (maximizing test): positive (Guinea pig, OECD Test Guideline 406) Toxicological studies of a comparable product.

Repeated Dose Toxicity
Subacute oral toxicity: NOAEL: > 1,000 mg/kg, (rat, Male/Female) Toxicological studies of a comparable product.

Mutagenicity
Genetic Toxicity in Vitro:
Chromosome aberration test in vitro: negative
Toxicological studies of a comparable product.
Salmonella/microsome test (Ames test): No indication of mutagenic effects.
Toxicological studies of a comparable product.
Genetic Toxicity in Vivo:
Micronucleus test: negative (Mouse)
Toxicological studies of a comparable product. negative

**Toxicity to Reproduction/Fertility**
Two-generation study, Oral, (rat, male/female) Toxicological studies of a comparable product.

**Developmental Toxicity/Teratogenicity**
Rat, female, Oral, NOAEL (teratogenicity): 1,000 mg/kg, NOAEL (maternal): 1,000 mg/kg, Studies of a comparable product.

**Carcinogenicity:**
No carcinogenic substances as defined by IARC, NTP and/or OSHA

### 12. Ecological Information

**Ecological Data for: Barreleye Part B**
Data on the product is not available. Please find the data available for the components.

**Ecological Data for Aspartic Ester**

**Biodegradation**
13 %, Exposure time: 28 d, i.e. not readily degradable
Ecotoxicological reports on a comparable product
0 %, Exposure time: 28 d, i.e. not inherently degradable Ecotoxicological studies of the product

**Bioaccumulation**
Value calculated, 1,872 BCF
The substance hydrolyzes rapidly in water. An accumulation in aquatic organisms is not to be expected.

**Acute and Prolonged Toxicity to Fish**
LC50: 66 mg/l (Danio rerio (zebra fish), 96 h)
Ecotoxicological reports on a comparable product

**Acute Toxicity to Aquatic Invertebrates**
EC50: 88.6 mg/l (Daphnia magna (Water flea), 48 h)
Studies of a comparable product.

**Toxicity to Aquatic Plants**
IC50: 113 mg/l, (scenedesmus subspicatus, 72 h)
Ecotoxicological reports on a comparable product

**Toxicity to Terrestrial Plants**
NOEC: >= 100 mg/kg, End Point: seedling emergence (Avena sativa (oats)) Studies of a comparable product.
NOEC: >= 100 mg/kg, End Point: seedling emergence (Allium cepa (onion)) Studies of a comparable product.
NOEC: >= 100 mg/kg, End Point: seedling emergence (Brassica napus (rape)) Studies of a comparable product.

**Toxicity to Microorganisms**
EC50: 3,110 mg/l, (activated sludge, 3 h)
Ecotoxicological reports on a comparable product
13. Disposal Considerations

**Waste Disposal Method**
Waste disposal should be in accordance with existing federal, state and local environmental control laws.

**Empty Container Precautions**
Recondition or dispose of empty container in accordance with governmental regulations. Do not reuse empty container without proper cleaning. Empty containers retain product residue (dust, liquid, vapor and/or gases) and can be dangerous. Do not heat or cut container with electric or gas torch.

14. Transportation Information

**Land transport (DOT)**
Non-Regulated

**Sea transport (IMDG)**
Non-Regulated

**Air transport (ICAO/IATA)**
Non-Regulated

15. Regulatory Information

**United States Federal Regulations**

**US. Toxic Substances Control Act**: Listed on the TSCA Inventory. No substances are subject to TSCA 12(b) export notification requirements.

**US. EPA CERCLA Hazardous Substances (40 CFR 302) Components**: None

**SARA Section 311/312 Hazard Categories**: Acute Health Hazard

**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A) Components**: None

**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required Components**: None

**US. EPA Resource Conservation and Recovery Act (RCRA) Composite List of Hazardous Wastes and Appendix VIII Hazardous Constituents (40 CFR 261)**: Under RCRA, it is the responsibility of the person who generates a solid waste, as defined in 40 CFR 261.2, to determine if that waste is a hazardous waste.

**State Right-To-Know Information**
The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the SDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.
Massachusetts, New Jersey or Pennsylvania Right to Know Substance Lists:

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<td>Aspartic Ester</td>
<td>136210-30-5</td>
</tr>
<tr>
<td>1 -5%</td>
<td>Aliphatic Carboxylic Ester</td>
<td>623-91-6</td>
</tr>
</tbody>
</table>

**California Prop. 65:**
To the best of our knowledge, this product does not contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm.

Based on information provided by our suppliers, this product is considered “DRC Conflict Free” as defined by the SEC Conflict Minerals Final Rule (Release No. 34-67716; File No. S7-40-10; Date: 2012-08-22).

**16. Other Information**

The method of hazard communication for Jamrac Corporation is comprised of Product Labels and Safety Data Sheets.

Contact: Technical Department

Telephone: +1(520) 977-7014

SDS Number: S000003

Version Date: 02/25/2016

SDS Version: 2.0