Section 1. Chemical product and company identification

Product name: NeoCryl B-735  
Supplier: DSM NeoResins+, Inc.  
730 Main Street  
Wilmington, MA 01887 USA  
Telephone: +1 (978) 658-6600

Chemical formula: Not applicable.
Material uses: Resin used in the production of coatings, inks and/or adhesives
Emergency telephone number: 800-424-9300 Medical Emergency  
For chemical emergency, spill, leak, fire, exposure or accident: call CHEMTREC day or night. DOMESTIC NORTH AMERICA 800-424-9300; INTERNATIONAL, CALL 703-527-3887 (collect calls accepted)

Section 2. Hazards identification

Physical state: Solid. [Beads]  
Odor: Odorless.
Emergency overview: DANGER! MAY CAUSE SEVERE ALLERGIC SKIN REACTION.  
May cause sensitization by skin contact. Do not get on skin or clothing. Wash thoroughly after handling.

OSHA/HCS status: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Hazardous Material Information System (U.S.A.)

<table>
<thead>
<tr>
<th></th>
<th>Health</th>
<th>Flammability</th>
<th>Physical hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>PERSONAL PROTECTION</td>
<td>1</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

The PPE (Personal Protection Equipment) designation in the HMIS is provided for use by employees at supplier sites only. Other users of this product are encouraged to evaluate the hazards of the product and assign PPE that is applicable to their specific situations.

Potential acute health effects

Inhalation: No known significant effects or critical hazards.
Ingestion: No known significant effects or critical hazards.
Skin: May cause sensitization by skin contact.
Eyes: No known significant effects or critical hazards.

Potential chronic health effects

Chronic effects: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity: No known significant effects or critical hazards.
Mutagenicity: No known significant effects or critical hazards.

Continued on next page
**Teratogenicity**
- No known significant effects or critical hazards.

**Developmental effects**
- No known significant effects or critical hazards.

**Fertility effects**
- No known significant effects or critical hazards.

**Medical conditions aggravated by over-exposure**
- Pre-existing skin disorders may be aggravated by over-exposure to this product.

**Remarks**
- Dust may cause mechanical irritation.

See toxicological information (Section 11)

### Section 3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS number</th>
<th>% by weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>methyl methacrylate</td>
<td>80-62-6</td>
<td>0.1 - 1</td>
</tr>
<tr>
<td>n-Butyl methacrylate</td>
<td>97-88-1</td>
<td>0.1 - 1</td>
</tr>
</tbody>
</table>

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

### Section 4. First aid measures

**Eye contact**
- Rinse with plenty of running water. Get medical attention if symptoms occur.

**Skin contact**
- Wash with soap and water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

**Ingestion**
- If swallowed, rinse mouth with water (only if the person is conscious). Get medical attention if symptoms occur.

**Protection of first-aiders**
- No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

**Notes to physician**
- No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

### Section 5. Fire-fighting measures

**Flammability of the product**
- No specific fire or explosion hazard.

**Hazardous thermal decomposition products**
- In case of fire, may produce hazardous decomposition products such as carbon monoxide, carbon dioxide, (dense) black smoke, aldehydes, organic acids.

**Extinguishing media**
- Suitable: Use water, foam or dry chemical powder.
- Special fire-fighting procedures: No special measures required.

**Protection of fire-fighters**
- Wear suitable protective clothing. Self-contained breathing apparatus.

**Remarks**
- This material will support combustion if ignited. Like all thermoplastic materials, it will melt under fire conditions.

### Section 6. Accidental release measures

**Personal precautions**
- 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. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

**Environmental precautions**
- No special measures required.

**Methods for cleaning up**
- Vacuum or sweep up material and place in a designated, labeled waste container. Recycle, if possible. Prevent formation of dust clouds. Clean up affected area with a large amount of water.

Continued on next page
Remarks
Hazard of slipping on spilled product.
Use explosion-proof electrical (ventilating, lighting and material handling) equipment.

Section 7. Handling and storage

Handling
Use with adequate ventilation.

Storage
Keep in a cool and dry place.

Remarks
Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Take precautionary measures against static discharges. Keep away from sources of ignition.

Section 8. Exposure controls/personal protection

Engineering controls
No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Personal protection

Eyes
Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

Skin
Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory
No special protection is required. In case of insufficient ventilation, wear suitable respiratory equipment.

Hands
Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

<table>
<thead>
<tr>
<th>Product name</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>methyl methacrylate</td>
<td>ACGIH TLV (United States, 2/2010). Skin sensitizer.</td>
</tr>
<tr>
<td></td>
<td>TWA: 50 ppm 8 hour(s).</td>
</tr>
<tr>
<td></td>
<td>STEL: 100 ppm 15 minute(s).</td>
</tr>
<tr>
<td></td>
<td>TWA: 100 ppm 8 hour(s).</td>
</tr>
<tr>
<td></td>
<td>TWA: 410 mg/m$^3$ 8 hour(s).</td>
</tr>
<tr>
<td></td>
<td>NIOSH REL (United States, 6/2009).</td>
</tr>
<tr>
<td></td>
<td>TWA: 100 ppm 10 hour(s).</td>
</tr>
<tr>
<td></td>
<td>TWA: 410 mg/m$^3$ 10 hour(s).</td>
</tr>
<tr>
<td></td>
<td>OSHA PEL (United States, 6/2010).</td>
</tr>
<tr>
<td></td>
<td>TWA: 100 ppm 8 hour(s).</td>
</tr>
<tr>
<td></td>
<td>TWA: 410 mg/m$^3$ 8 hour(s).</td>
</tr>
</tbody>
</table>

Consult local authorities for acceptable exposure limits.

Remarks
Use explosion-proof electrical (ventilating, lighting and material handling) equipment.
Wear dust protection mask P2.

Section 9. Physical and chemical properties

Physical state
Solid. [Beads]

Flash point
Closed cup: Not applicable.

Color
Transparent white.

Odor
Odorless.

Specific gravity
1.15

Viscosity
Dynamic: Not applicable.

Solubility
Insoluble in the following materials: cold water and hot water.

Continued on next page
Remarks: Soluble in the following materials: esters, ketones, aromatic and chlorinated solvents.

Section 10. Stability and reactivity

Stability and reactivity: The product is stable.

Conditions to avoid: No special recommendations.

Materials to avoid: No special recommendations.

Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

Section 11. Toxicological information

Acute toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>methyl methacrylate</td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>&gt;5 g/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>5000 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rabbit</td>
<td>8700 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>7872 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LC50 Inhalation Vapor</td>
<td>Mouse</td>
<td>3625 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>n-Butyl methacrylate</td>
<td>LC50 Inhalation Vapor</td>
<td>Rat</td>
<td>78000 mg/m³</td>
<td>4 hours</td>
</tr>
<tr>
<td></td>
<td>LC50 Inhalation Vapor</td>
<td>Rat</td>
<td>78000 mg/m³</td>
<td>4 hours</td>
</tr>
<tr>
<td></td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>&gt;2000 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>16 g/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LC50 Inhalation Vapor</td>
<td>Rat</td>
<td>29 mg/L</td>
<td>4 hours</td>
</tr>
</tbody>
</table>

Conclusion/Summary: Not available.

Chronic toxicity: Not available.

Irritation/Corrosion: Not available.

Sensitizer: Not available.

Carcinogenicity: Not available.

Classification

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>EPA</th>
<th>NIOSH</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>methyl methacrylate</td>
<td>A4</td>
<td>3</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Mutagenicity: Not available.

Teratogenicity: Not available.

Reproductive toxicity: Not available.

Remarks: Contains >0.1% n-Butyl methacrylate. Contains >0.1% methyl methacrylate. If the polymer matrix is destroyed e.g. when the product is dissolved in organic solvent, chemical residues will be released from the polymer matrix. Under these conditions, they may produce an allergic reaction.
Section 12. Ecological information

Ecotoxicity

No known significant effects or critical hazards.

Aquatic ecotoxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute LC50 311000 ug/L Fresh water</td>
<td>Fish - Pimephales promelas - 3.8 to 6.4 cm - 1 to 2 g</td>
<td>96 hours</td>
<td></td>
</tr>
<tr>
<td>Acute LC50 283000 ug/L Fresh water</td>
<td>Fish - Lepomis macrochirus - Juvenile (Fledgling, Hatching, Weanling) - 3.65 cm - 0.9 g</td>
<td>96 hours</td>
<td></td>
</tr>
<tr>
<td>Acute LC50 259000 ug/L Fresh water</td>
<td>Fish - Pimephales promelas - 31 days - 15.4 mm - 0.054 g</td>
<td>96 hours</td>
<td></td>
</tr>
<tr>
<td>Acute LC50 232200 ug/L Fresh water</td>
<td>Fish - Lepomis macrochirus - 3.8 to 6.4 cm - 1 to 2 g</td>
<td>96 hours</td>
<td></td>
</tr>
<tr>
<td>Acute LC50 191000 ug/L Fresh water</td>
<td>Fish - Lepomis macrochirus - Juvenile (Fledgling, Hatching, Weanling) - 3.65 cm - 0.9 g</td>
<td>96 hours</td>
<td></td>
</tr>
<tr>
<td>Acute LC50 160200 ug/L Fresh water</td>
<td>Fish - Pimephales promelas - 3.8 to 6.4 cm - 1 to 2 g</td>
<td>96 hours</td>
<td></td>
</tr>
<tr>
<td>Acute LC50 159100 ug/L Fresh water</td>
<td>Fish - Pimephales promelas - 3.8 to 6.4 cm - 1 to 2 g</td>
<td>96 hours</td>
<td></td>
</tr>
<tr>
<td>Acute LC50 150000 ug/L Fresh water</td>
<td>Fish - Pimephales promelas - Adult</td>
<td>96 hours</td>
<td></td>
</tr>
<tr>
<td>Acute LC50 150000 ug/L Fresh water</td>
<td>Fish - Pimephales promelas - Adult</td>
<td>96 hours</td>
<td></td>
</tr>
<tr>
<td>Acute LC50 130000 ug/L Fresh water</td>
<td>Fish - Pimephales promelas - Adult</td>
<td>96 hours</td>
<td></td>
</tr>
<tr>
<td>EC50 25.4 mg/l</td>
<td>Daphnia</td>
<td>48 hours</td>
<td></td>
</tr>
<tr>
<td>LC50 11 mg/l</td>
<td>Fish</td>
<td>96 hours</td>
<td></td>
</tr>
</tbody>
</table>

Conclusion/Summary

Not available.

Persistence/degradability

Conclusion/Summary

Not available.

Section 13. Disposal considerations

Waste disposal

Waste must be disposed of in accordance with national and local environmental regulations.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

Consult your local or regional authorities.

Section 14. Transport information

<table>
<thead>
<tr>
<th>Regulatory information</th>
<th>UN number</th>
<th>Proper shipping name</th>
<th>Class</th>
<th>Packing group</th>
<th>Label</th>
<th>Additional information</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT Classification</td>
<td>Not regulated.</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>TDG Classification</td>
<td>Not regulated.</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Mexico Classification</td>
<td>Not regulated.</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>ADR/RID Class</td>
<td>Not regulated.</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>IMDG Class</td>
<td>Not regulated.</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

Continued on next page
# Section 15. Regulatory information

<table>
<thead>
<tr>
<th>U.S. Federal regulations</th>
<th>CAS number</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)</td>
<td>Not listed</td>
<td></td>
</tr>
</tbody>
</table>

**SARA 313**

**Form R - Reporting requirements**

- Product name: Connecticut Carcinogen Reporting: None of the components are listed.
- Connecticut Hazardous Material Survey: None of the components are listed.
- Florida substances: None of the components are listed.
- Illinois Chemical Safety Act: None of the components are listed.
- Illinois Toxic Substances Disclosure to Employee Act: None of the components are listed.
- Louisiana Reporting: None of the components are listed.
- Louisiana Spill: None of the components are listed.
- Massachusetts Spill: None of the components are listed.
- Massachusetts Substances: None of the components are listed.
- Michigan Critical Material: None of the components are listed.
- Minnesota Hazardous Substances: None of the components are listed.
- New Jersey Hazardous Substances: None of the components are listed.
- New Jersey Spill: None of the components are listed.
- New Jersey Toxic Catastrophe Prevention Act: None of the components are listed.
- New York Acutely Hazardous Substances: None of the components are listed.
- New York Toxic Chemical Release Reporting: None of the components are listed.
- Pennsylvania RTK Hazardous Substances: None of the components are listed.
- Rhode Island Hazardous Substances: None of the components are listed.

**California Prop. 65**

**WARNING:** This product contains less than 0.1% of a chemical known to the State of California to cause cancer.

**WARNING:** This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Cancer</th>
<th>Reproductive</th>
<th>No significant risk level</th>
<th>Maximum acceptable dosage level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzene</td>
<td>Yes.</td>
<td>Yes.</td>
<td>6.4 μg/day (ingestion)</td>
<td>24 μg/day (ingestion)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>13 μg/day (inhalation)</td>
<td>49 μg/day (inhalation)</td>
</tr>
<tr>
<td>United States inventory (TSCA 8b)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**WARNING:** This product contains less than 0.1% of a chemical known to the State of California to cause cancer.

**WARNING:** This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

**California Prop. 65**

**Ingredient name**

- Benzene

**United States inventory (TSCA 8b)**

- All components are listed or exempted.
### Section 16. Other information

<table>
<thead>
<tr>
<th>Label requirements</th>
<th>MAY CAUSE SEVERE ALLERGIC SKIN REACTION.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date of printing</td>
<td>8/17/2011.</td>
</tr>
<tr>
<td>Date of issue</td>
<td>8/17/2011.</td>
</tr>
<tr>
<td>Date of previous issue</td>
<td>8/17/2011.</td>
</tr>
<tr>
<td>Version</td>
<td>3</td>
</tr>
<tr>
<td>Code</td>
<td>030082WW46100 - US</td>
</tr>
</tbody>
</table>

**Notice to reader**

The information contained in the Material Safety Data Sheet is based on our data available on the date of publication. The information is intended to aid the user in controlling the handling risks; it is not to be construed as a warranty or specification of the product quality. The information may not be or may not altogether be applicable to combinations of the product with other substances or to particular applications. The user is responsible for ensuring that appropriate precautions are taken and for satisfying themselves that the data are suitable and sufficient for the product's intended purpose. In case of any unclarity we advise consulting the supplier or an expert.

**Sources of key data**

- Literature data and/or investigation reports are available through the manufacturer.

**Alterations compared to the previous version**

- Alterations compared to the previous version are marked with a little (blue) triangle.