MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: S-1239, Part A
PRODUCT USE: Part A Epoxy base for a 2-Part Epoxy Adhesive

MANUFACTURER: Berry plastics
DIVISION: Corrosion Protection Group
ADDRESS: 9635 Heinrich Hertz Dr St-9
San Diego, CA 92154

FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE or ACCIDENT
Call CHEMTREC – Day or Night – 1-800-424-9300 Toll Free in the continental U.S., Hawaii, Puerto Rico, Canada, Alaska or Virgin Islands. Outside the United States call: (703) 527-3887 (collect calls accepted)

FOR OTHER TECHNICAL/HEALTH/SAFETY INFORMATION: (858) 633-9734

CHEMICAL FAMILY: This product is a resinous suspension that provides the base properties to a 2-part epoxy adhesive.

PRODUCT USE: Part A is a finished product that provides the base component in a resinous suspension with an as-designed, intended-use consisting of direct end-use application in a 2-part epoxy adhesive system in combination with the proper Part B component. When combined with the proper Part B component, the resulting epoxy adhesive has an end-use application in metal and plastic bonding where corrosion protection is desired (see, Covalence Adhesives Product Installation and Use Instructions that accompany the product).

This product is not considered an Article thus may be regulated under US-OSHA; CAN-WHMIS; IOSH; ISO; UK-CHIP; or EU Directives (67/548/EEC-Dangerous Substance Labeling, 98/24/EC-Chemical Agents at Work, 99/45/EC-Preparation Labeling, 2001/58/EC-MSDS Content), and an MSDS is required for this product considering that when used as recommended or intended, or under ordinary conditions, it may present a health and safety exposure or other hazard.

Additional Information
No additional information. When combined with the proper Part B component, this product is intended for harsh environments, such as wet bonding applications. Please request information if considering non-STP, incompatible-conditions or use beyond current product labeling or instructions. Note that Part A should not be stored/dispensed in high temperature or humid/wet conditions without precaution.

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENT</th>
<th>CAS #</th>
<th>% by Wt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bisphenol A/Epichlorohydrin Resin</td>
<td>25068-38-6</td>
<td>65 - 75</td>
</tr>
<tr>
<td>3-(2, 3-epoxypropoxy) propyltrimethoxysilane</td>
<td>2530-83-8</td>
<td>0.5 - 4</td>
</tr>
</tbody>
</table>

Additional Information
No additional information. These ingredients reflect components of the finished Part A product related to performance of the product as distributed into commerce.

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:
Avoid eye and skin contact.
POTENTIAL HEALTH EFFECTS

EYES:  Eye irritant.  Direct contact or exposure to vapors or mists may cause stinging, tearing, redness and swelling.  Persons with pre-existing eye disorders may be more susceptible to the effects of this material.

SKIN:  Skin irritant.  Direct contact may cause redness, burning and skin damage.  Repeated contact may cause an allergic skin reaction in sensitized individuals.  Persons with pre-existing skin disorders may be more susceptible to the effects of this material.

INGESTION:  A minor component of this material may form methanol upon exposure to water or humidity.  Swallowing methanol may cause irritation of the digestive tract, nervous system depression (e.g. headache, drowsiness, dizziness, loss of coordination and fatigue), and blindness.

INHALATION:  Heating may produce vapors which could cause irritation of the respiratory tract.  A minor component of this material may form methanol upon exposure to water or humidity.  Breathing methanol may cause irritation of the respiratory tract and nervous system depression (e.g. headache, drowsiness, dizziness, loss of coordination and fatigue).  Persons with pre-existing lung disorders (for example asthma-like conditions) may be more aggravated by exposure to methanol vapors or mists.

ACUTE HEALTH HAZARDS:
May cause eye, skin and respiratory tract irritation.

CHRONIC HEALTH HAZARDS:
Bisphenol A/Epichlorohydrin Resin is positive in in vitro microbial mutagenicity screening tests, and has produced chromosomal aberrations in cultured rat liver cells.  It has, however, proven to be inactive when tested in in vivo assays.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:
Pre-existing eye, skin, and respiratory disorders may be aggravated by exposure.

Additional Information
No additional information

SECTION 4: FIRST AID MEASURES

EYES:  Holding eyelids apart, flush affected eye(s) with clean water for at least 20 minutes.  If symptoms persist, seek medical attention.

SKIN:  Immediately wipe material from skin and wash affected area(s) with plenty of mild soap and water while removing contaminated clothing and shoes.  If symptoms persist, seek medical attention.  Wash clothing before reuse.  Thoroughly clean shoes before reuse.

INGESTION:  DO NOT induce vomiting.  If victim is conscious and alert, immediately rinse mouth with water and dilute the ingested material by giving one glass of water or milk to drink.  Seek immediate medical attention.

INHALATION:  If respiratory or other symptoms of exposure develop, move victim to fresh air and seek medical attention.  If breathing difficulties develop, oxygen should be administered by qualified personnel.  Seek immediate medical attention.  If victim is not breathing, move to fresh air and immediately begin artificial respiration.  Keep victim warm and quiet; seek immediate medical attention.

Additional Information
NOTE TO PHYSICIAN:  To measure the degree of ingestion, the presence of barium can be used as a radiological marker.  Produces methanol when in contact with water or moist air.  Treat as for ingestion of methanol.

SECTION 5: FIRE-FIGHTING MEASURES

Flash Point  > 149° C (closed cup)
Autoignition temperature  No data available
Lower Explosive Limit (LEL)  Not established
Upper Explosive Limit (UEL)  Not established
Extinguishing Media  Carbon dioxide, foam, dry chemical, water.
Special Fire Fighting Procedures
Fireman should wear self-contained breathing apparatus

Unusual Fire and Explosion Hazards
None known

HMIS HAZARD CLASSIFICATION

<table>
<thead>
<tr>
<th>HEALTH</th>
<th>FLAMMABILITY</th>
<th>REACTIVITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

Additional Information
No additional information.

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES:
Wear appropriate personal protective equipment. Prevent soil and water pollution. Substance must not be discharged into the sewer. Take measures to stop spillage at source, contain leaking substance, and pump over in suitable containers for disposal in accordance with local regulations. Plug the leak and cut off the supply. Dam up the liquid spill.

Additional Information
No additional information

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE:
Mixing and application should be done in a well-ventilated area. Local exhaust is recommended; general dilution ventilation is acceptable. Avoid all personal contact. Keep containers tightly closed. Wash thoroughly after using. Parts A and B release heat when combined. Store in a cool, well-ventilated area.

OTHER PRECAUTIONS:
Store away from direct sunlight under normal storage conditions of approximately 23C and 50% Relative Humidity to maximize the shelf life of this product and to avoid product degradation prior to use as-intended. Storage at temperatures beyond normal-use conditions may adversely affect product functionality, and elevated temperatures may create hazardous conditions.

Additional Information
No additional information

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:
Use with adequate ventilation.

VENTILATION:
Local exhaust is recommended; general dilution ventilation is acceptable.

RESPIRATORY PROTECTION:
If ventilation is inadequate, use NIOSH approved respirator for organic vapor.

EYE PROTECTION:
Wear chemical goggles

SKIN PROTECTION:
Wear butyl gloves as a standard procedure to prevent skin contact.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:
Wear gauntlets and apron, especially for transfer of bulk quantities of concentrated product.

EXPOSURE GUIDELINES:

<table>
<thead>
<tr>
<th>Bisphenol A/Epichlorohydrin Resin</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time-weighted Average Exposure Value:</td>
</tr>
<tr>
<td>Permissible Exposure Limit (TWA)</td>
</tr>
<tr>
<td>Threshold Limit Value (TWA)</td>
</tr>
</tbody>
</table>

Issue No: 9  Effective Date: July 2009  Serial No.: COV/6023A
3-(2, 3-epoxypropoxy) propyltrimethoxysilane

Ontario: Time-weighted Average Exposure Value: Not Established
OSHA: Permissible Exposure Limit (TWA) Not Established
ACGIH: Threshold Limit Value (TWA) Not Established
Dow Corning Corp: TWA Guidance 5 ppm
Dow Corning Corp: Excursion Value (15 min.) 10 ppm

Methanol (may be liberated when product is in contact with water or humid air – see Section 10)
Ontario: Time-weighted Average Exposure Value: 200 ppm
Ontario: Short Term Exposure Limit 250 ppm
OSHA: Permissible Exposure Limit (TWA) 200 ppm
ACGIH: Threshold Limit Value (TWA) 200 ppm (skin)
ACGIH: Short Term Exposure Limit 200 ppm (skin)

Additional Information
The American Conference of Governmental Industrial Hygienists has determined that methanol may be absorbed through the skin in harmful amounts.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Black
ODOR: Mild odor
PHYSICAL STATE: Resinous Suspension
pH: Not available
BOILING POINT: Not determined
FREEZING POINT: Not determined
VAPOR PRESSURE: Not determined
VAPOR DENSITY (AIR = 1): Not determined
SPECIFIC GRAVITY (H2O = 1): > 1
EVAPORATION RATE: Not determined
SOLUBILITY IN WATER: Negligible
% VOLATILE BY VOLUME Not determined
WATER/OIL PARTITION COEFFICIENT Not available

Additional Information
No additional information

SECTION 10: STABILITY AND REACTIVITY

STABILITY: This product is stable under normal conditions at ambient temperature.

INCOMPATIBILITY (MATERIAL TO AVOID): Avoid contact with strong oxidizers, acids, and bases. Exposure to water or humid air may generate small amounts of methanol vapor.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Hazardous combustion products include, but are not limited to, carbon monoxide, carbon dioxide, hydrogen sulfide, oxides of sulfur, silicon dioxide, aldehydes, acids, and other organic substances.

HAZARDOUS POLYMERIZATION: Will not occur.

Additional Information
No additional information

SECTION 11: TOXICOLOGICAL INFORMATION

Bisphenol A/Epichlorohydrin Resin is positive in in vitro microbial mutagenicity screening tests, and has produced chromosomal aberrations in cultured rat liver cells. It has, however, proven to be inactive when tested in in vivo assays.

3-(2, 3-epoxypropoxy) propyltrimethoxysilane is positive in in vitro bacterial and tissue culture mutagenicity screening tests. This chemical has also shown DNA interference in cultured hamster ovary cells. The relevance of this finding in humans is
uncertain.

The ingredients in this product, present at equal to or greater than 0.1% of the product, are not listed by OSHA, NTP, or IARC as suspect carcinogens.

Additional Information
Skin absorption is the most important route of entry. Eye contact may also occur. Inhalation of significant amounts is unlikely due to low volatility. Ingestion is also unlikely in normal use.

SECTION 12: ECOLOGICAL INFORMATION

Additional Information
No ecological information available

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Follow local, State/Provincial, and Federal/National regulations applicable to as-used, end-of-life characteristics to be determined by end-user.

US-EPA HAZARD CLASS: Not Applicable to finished Part A product as manufactured for distribution into commerce.

Additional Information
No additional information. This product is not expected to present a hazard when disposed under reasonable conditions of end-use and in accordance with applicable law.

SECTION 14: TRANSPORT INFORMATION

GROUND – US-DOT/CAN-TDG/EU-ADR/APEC-ADR
Proper Shipping Name: Non-Flammable Adhesive Resin – Fully Exempt
Hazard Class: ID Number
Packing Group: Labels

AIRCRAFT – ICAO-IATA
Proper Shipping Name: Non-Flammable Adhesive Resin – Fully Exempt
Hazard Class: ID Number
Packing Group: Labels

VESSEL – IMO-IMDG
Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (Bisphenol-A Epichlorohydrin Resin)
Hazard Class: 9 UN 3082
Packing Group: II Label Miscellaneous
Other Instructions – Liberates Methanol Vapor on contact with Water.

Additional Information
No additional information. Note that transport requires proper packaging and paperwork, including the Nature and Quantity of goods, per applicable origin/destination/customs points as-shipped. As-intended for use as a 2-part adhesive, transport of Parts A and B in the same package, carton or pallet may change the transport requirements indicated above for Part A alone.

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS
TSCA Section 8b – Inventory Status: All chemicals comprising this product are either exempt or listed on the TSCA Inventory.

TSCA Section 12b – Export Notification: This product contains the following chemicals subject to TSCA Section 12b export notification.

<table>
<thead>
<tr>
<th>Chemical</th>
<th>CAS #</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td></td>
</tr>
</tbody>
</table>

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT)
Chemicals present in the product at a level which could require reporting under the statute:

<table>
<thead>
<tr>
<th>Chemical</th>
<th>CAS #</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td></td>
</tr>
</tbody>
</table>

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)
This product contains the following chemicals subject to the reporting requirements of Section 313 of SARA Title III.

<table>
<thead>
<tr>
<th>Chemical</th>
<th>CAS #</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td></td>
</tr>
</tbody>
</table>

CERCLA SECTION 311/312 HAZARD CATEGORIES:

- Fire Hazard: No
- Pressure Hazard: No
- Reactivity Hazard: No
- Immediate Hazard: Yes
- Delayed Hazard: No

STATE REGULATIONS

California Proposition 65

This product contains the following chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm:

<table>
<thead>
<tr>
<th>Chemical</th>
<th>CAS No.</th>
<th>% Wt</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

INTERNATIONAL REGULATIONS

Canadian Domestic Substance List (DSL)

All ingredients in this product or used to manufacture this product are included on the Domestic Substances List.

WHMIS Classifications

Class D, Division 2 – Poisonous and infectious material: other toxic effects

NPRI and Ontario Regulation 127/01

This product contains the following chemicals subject to the reporting requirements of Canada NPRI +/or Ont. Reg. 127/01:

<table>
<thead>
<tr>
<th>Chemical</th>
<th>CAS No.</th>
<th>% Wt</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

European Inventory of Existing Commercial Chemical Substances (EINECS)

All ingredients in this product or used to manufacture this product are exempt from, or included on, the European Inventory of Existing Commercial Chemical Substances. EEC R-Phrases are not included in this MSDS.

Additional Information

No additional information. This product may be regulated under additional regulations and laws not identified above, such as for uses other than described or as-designed/as-intended by the manufacturer, or for distribution outside of the USA/Canada.

SECTION 16: OTHER INFORMATION

OTHER INFORMATION

Not Applicable for distribution into commerce within the USA or Canada.

Sources of Information

- Ontario Ministry of Labour Regulation 654/86. Regulations Respecting Exposure to Chemical or Biological Agents.
- RTECS – Registry of Toxic Effects of Chemical Substances, National institute for Occupational Safety and Health.
PREPARATION INFORMATION

DATE OF ISSUE:       July 02, 2009       SUPERSEDES:       April 22, 2008

DISCLAIMER
Berry plastics makes no warranties as to the accuracy or completeness of this information and disclaims any liability in connection with its use. Berry plastics obligation shall be only as set forth in Berry plastics standard terms and conditions of sale for this product. In no case will Berry plastics be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product.

The information presented herein was prepared at Berry plastics by qualified technical personnel, and to our knowledge it is true and accurate. The information and recommendations are furnished for this product with the understanding that the purchaser will independently determine the suitability of the product for this purpose. The data do not constitute a warranty, expressed or implied, statutory or otherwise, nor are they a representation for which Berry plastics assumes legal responsibility. The data are submitted for the user’s information and consideration only. Any use of this product must be determined by the user to be in accordance with the applicable federal, state, and local laws and regulations.
MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: S-1239 , Part B
PRODUCT USE: Part B Epoxy Hardener for a 2-Part Epoxy Adhesive

MANUFACTURER: Berry plastics
DIVISION: Corrosion Protection Group
ADDRESS: 9635 Heinrich Hertz Dr St-9
San Diego, CA 92154

FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE or ACCIDENT
Call CHEMTREC – Day or Night – 1-800-424-9300 Toll Free in the continental U.S., Hawaii, Puerto Rico, Canada, Alaska or Virgin Islands. Outside the United States call: (703) 527-3887 (collect calls accepted)

FOR OTHER TECHNICAL/HEALTH/SAFETY INFORMATION: (858) 633-9734

CHEMICAL FAMILY: This product is a resinous suspension that provides the hardening properties to a 2-part epoxy adhesive.

PRODUCT USE: Part B is a finished product that provides the hardening component in a resinous suspension with an as-designed, intended-use consisting of direct end-use application in a 2-part epoxy adhesive system in combination with the proper Part A component. When combined with the proper Part A component, the resulting epoxy adhesive has an end-use application in metal and plastic bonding where corrosion protection is desired (see, Covalence Adhesives Product Installation and Use Instructions that accompany the product).

This product is not considered an Article thus may be regulated under US-OSHA; CAN-WHIS; IOSH; ISO; UK-CHIP; or EU Directives (67/548/EEC-Dangerous Substance Labeling, 98/24/EC-Chemical Agents at Work, 99/45/EC-Preparation Labeling, 2001/58/EC-MSDS Content), and an MSDS is required for this product considering that when used as recommended or intended, or under ordinary conditions, it may present a health and safety exposure or other hazard.

Additional Information
No additional information. When combined with the proper Part A component, this product is intended for harsh environments, such as wet bonding applications. Please request information if considering non-STP, incompatible-conditions or use beyond current product labeling or instructions. Note that Part B should not be stored/dispensed in high temperature or humid/wet conditions without precaution.

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENT</th>
<th>CAS #</th>
<th>% by Wt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyamide Resin</td>
<td>68410-23-1</td>
<td>75 - 90</td>
</tr>
<tr>
<td>Dimethylaminopropylamine</td>
<td>109-55-7</td>
<td>0.5 - 4</td>
</tr>
</tbody>
</table>

Additional Information
No additional information. These ingredients reflect components of the finished Part B product related to performance of the product as distributed into commerce.

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:
Avoid all personal contact. May cause severe skin and eye irritation and burns. Toxic when absorbed though skin or swallowed. In case of skin contact flush well with and seek medical attention. If ingested, DO NOT induce vomiting. Give one glass of water to drink and seek immediate medical attention.

POTENTIAL HEALTH EFFECTS
EYES: This material is corrosive and can cause severe burns to the eyes. Direct contact or exposure to vapors
or mists may cause stinging, tearing, redness, corneal damage and irreversible eye damage. Persons with pre-existing eye disorders may be more susceptible to the effects of this material.

### SKIN:
This material is corrosive and can cause severe burns to the skin. Direct contact can be severely irritating to the skin and may result in redness, swelling, burns and severe skin damage. Skin contact may be harmful. Toxic when absorbed though the skin. Symptoms of toxicity include malaise and discomfort. Injury leading to death may occur unless treatment is prompt. Persons with pre-existing skin disorders may be more susceptible to the effects of this material.

### INGESTION:
Ingestion may cause severe irritation and burns of the mouth, throat and digestive tract. Symptoms of toxicity include malaise and discomfort. Injury leading to death may occur unless treatment is prompt.

### INHALATION:
Breathing vapors or mists may cause severe irritation and burns of the nose, throat and respiratory tract. Other symptoms include coughing and chest pain. Pre-existing lung disorders (for example asthma-like conditions) may be aggravated by exposure to vapors or mists.

### ACUTE HEALTH HAZARDS:
Corrosive, may cause burns to eyes, skin, and respiratory tract.

### CHRONIC HEALTH HAZARDS:
Polyamide Resin is suspected of being mutagenic. See Section 11 for further information.

### MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:
Pre-existing eye, skin, and respiratory disorders may be aggravated by exposure.

---

### SECTION 4: FIRST AID MEASURES

#### EYES:
Holding eyelids apart, flush affected eye(s) with clean water for at least 20 minutes. Seek immediate medical attention.

#### SKIN:
Immediately wipe material from skin and wash affected area(s) with plenty of mild soap and water while removing contaminated clothing and shoes. Seek immediate medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

#### INGESTION:
DO NOT induce vomiting. If victim is conscious and alert, immediately rinse mouth with water and dilute the ingested material by giving one glass of water or milk to drink. Seek immediate medical attention.

#### INHALATION:
If respiratory or other symptoms of exposure develop, move victim to fresh air and seek medical attention. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention. If victim is not breathing, move to fresh air and immediately begin artificial respiration. Keep victim warm and quiet; seek immediate medical attention.

Additional Information

NOTE TO PHYSICIAN: This material has effects similar to those of ammonia and can cause tissue damage. Chemical pneumonitis, pulmonary edema and delayed scarring of the airways and other affected organs may occur following exposure.

---

### SECTION 5: FIRE-FIGHTING MEASURES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Point</td>
<td>33.3°C (closed cup)</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Lower Explosive Limit (LEL)</td>
<td>Not established</td>
</tr>
<tr>
<td>Upper Explosive Limit (UEL)</td>
<td>Not established</td>
</tr>
<tr>
<td>Extinguishing Media</td>
<td>Carbon dioxide, foam, dry chemical, water.</td>
</tr>
<tr>
<td>Special Fire Fighting Procedures</td>
<td>Fireman should wear self-contained breathing apparatus</td>
</tr>
<tr>
<td>Unusual Fire and Explosion Hazards</td>
<td>None known</td>
</tr>
</tbody>
</table>

### HMIS HAZARD CLASSIFICATION

<table>
<thead>
<tr>
<th>Hazard Class</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEALTH</td>
<td>3</td>
</tr>
<tr>
<td>FLAMMABILITY</td>
<td>3</td>
</tr>
<tr>
<td>REACTIVITY</td>
<td>0</td>
</tr>
</tbody>
</table>

Additional Information

No additional information
SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES:
Wear appropriate personal protective equipment. Prevent soil and water pollution. Substance must not be discharged into the sewer. Remove all sources of ignition. Take measures to stop spillage at source, contain leaking substance, pump over in suitable containers for disposal in accordance with local regulations. Plug the leak and cut off the supply. Dam up the liquid spill.

Additional Information
No additional information

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE:
Mixing and application should be done in a well-ventilated area. Local exhaust is recommended; general dilution ventilation is acceptable. Avoid all personal contact. Keep containers tightly closed. Wash thoroughly after using. Parts A and B release heat when combined. Store in a cool, well-ventilated area. Keep away from heat, sparks and open flame.

OTHER PRECAUTIONS:
Store away from direct sunlight under normal storage conditions of approximately 23C and 50% Relative Humidity to maximize the shelf life of this product and to avoid product degradation prior to use as-intended. Storage at temperatures beyond normal-use conditions may adversely affect product functionality, and elevated temperatures may create hazardous conditions.

Additional Information
No additional information

SECTION 8: EXPOSURE CONTROLS/PERS ONAL PROTECTION

ENGINEERING CONTROLS:
Use with adequate ventilation.

VENTILATION:
Local exhaust is recommended; general dilution ventilation is acceptable.

RESPIRATORY PROTECTION:
If ventilation is inadequate, use NIOSH approved respirator for organic vapor.

EYE PROTECTION:
Wear chemical goggles

SKIN PROTECTION:
Wear butyl gloves as a standard procedure to prevent skin contact.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:
Wear gauntlets and apron, especially for transfer of bulk quantities of concentrated product.

EXPOSURE GUIDELINES:
Polyamide Resin
- Ontario: Time-weighted Average Exposure Value: Not Established
- OSHA: Permissible Exposure Limit (TWA): Not Established
- ACGIH: Threshold Limit Value (TWA): Not Established

Dimethylaminopropylamine
- Ontario: Time-weighted Average Exposure Value: Not Established
- OSHA: Permissible Exposure Limit (TWA): Not Established
- ACGIH: Threshold Limit Value (TWA): Not Established

Additional Information
No additional information

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Yellow/amber
ODOR: Odor of ammonia
PHYSICAL STATE: Resinous suspension
pH: Not available
BOILING POINT: Not determined
SECTION 10: STABILITY AND REACTIVITY

STABILITY:
This product is stable under normal conditions at ambient temperature.

INCOMPATIBILITY (MATERIAL TO AVOID):
Avoid excessive exposure to heat for long periods of time. Violent reaction and fire may result on mixing with oxidizing agents such as perchlorates, nitrates, permanganates, chromates, nitric acid, halogens, peroxides and some cleaning solutions containing acids. Nitrosamines, many of which are known to be potent carcinogens, may be formed in the presence of nitrous acid, nitrates or atmospheres with high nitrogen oxide concentrations. Heat sufficient to cause boiling may be released when mixed with acids, creating a hazard from splashing or spattering of hot material. May corrode copper, aluminum, zinc and galvanized surfaces.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:
Hazardous combustion products include, but are not limited to, carbon monoxide, carbon dioxide, ammonia and oxides of nitrogen. In addition, combustion under oxygen starved conditions may produce hydrogen cyanide, nitriles, cyanic acid, isocyanates, cyanogens, nitrosamines, amides and carbamates.

HAZARDOUS POLYMERIZATION:
Will not occur.

Additional Information:
No additional information

SECTION 11: TOXICOLOGICAL INFORMATION

Polyamide Resin is suspected of being mutagenic. The relevance of this finding in humans is uncertain.

The ingredients in this product, present at equal to or greater than 0.1% of the product, are not listed by OSHA, NTP, or IARC as suspect carcinogens.

Additional Information
Skin absorption is the most important route of entry. Eye contact may also occur. Inhalation of significant amounts is unlikely due to low volatility and unpleasant odor. Ingestion is also unlikely in normal use.

SECTION 12: ECOLOGICAL INFORMATION

No ecological information available

Additional Information
No additional information. This product is not expected to present an ecological hazard when used under reasonable conditions and as-intended/as-designed by the manufacturer.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:
Follow local, State/Provincial, and Federal/National regulations applicable to as-used, end-of-life characteristics to be determined by end-user.

US-EPA HAZARD CLASS:
D001 – Ignitable Waste
SECTION 14: TRANSPORT INFORMATION

GROUND – US-DOT/CAN-TDG/EU-ADR/APEC-ADR

Proper Shipping Name: Corrosive Liquid, Flammable, N.O.S. (Dimethylaminopropylamine)
Hazard Class: Class 8, sub risk 3
Packing Group: II
ID Number: UN 2920
Labels: Corrosive, Flammable

AIRCRAFT – ICAO-IATA

Proper Shipping Name: Corrosive Liquid, Flammable, N.O.S. (Dimethylaminopropylamine)
Hazard Class: Class 8, sub risk 3
Packing Group: II
ID Number: UN 2920
Labels: Corrosive, Flammable

VESSEL – IMO-IMDG

Proper Shipping Name: Corrosive Liquid, Flammable, N.O.S. (Dimethylaminopropylamine)
Hazard Class: Class 8, sub risk 3
Packing Group: II
ID Number: UN 2920
Labels: Corrosive, Flammable

Additional Information
Marine pollutant. Note that transport requires proper packaging and paperwork, including the Nature and Quantity of goods, per applicable origin/destination/customs points as-shipped. As intended for use as a 2-part adhesive, transport of Parts A and B in the same package, carton or pallet may change the transport requirements indicated above for Part B alone.

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA Section 8b – Inventory Status: All chemicals comprising this product are either exempt or listed on the TSCA Inventory.

TSCA Section 12b – Export Notification: This product contains the following chemicals subject to TSCA Section 12b export notification.

<table>
<thead>
<tr>
<th>Chemical</th>
<th>CAS #</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td></td>
</tr>
</tbody>
</table>

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT)

Chemicals present in the product at a level which could require reporting under the statute:

<table>
<thead>
<tr>
<th>Chemical</th>
<th>CAS #</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td></td>
</tr>
</tbody>
</table>

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

This product contains the following chemicals subject to the reporting requirements of Section 313 of SARA Title III.

<table>
<thead>
<tr>
<th>Chemical</th>
<th>CAS #</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td></td>
</tr>
</tbody>
</table>

CERCLA SECTION 311/312 HAZARD CATEGORIES:

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fire Hazard</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pressure Hazard</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reactivity Hazard</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Immediate Hazard</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Delayed Hazard</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

STATE REGULATIONS

California Proposition 65

This product contains the following chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm:

<table>
<thead>
<tr>
<th>Chemical</th>
<th>CAS No.</th>
<th>% Wt</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

INTERNATIONAL REGULATIONS

Canadian Domestic Substance List (DSL)

All ingredients in this product or used to manufacture this product are included on the Domestic Substances List.
WHMIS Classifications
Class B – Flammable and Combustible Material; Class D, Division 1 – Poisonous and infectious material: immediate and serious toxic effects; Class E – Corrosive Material.

NPRI and Ontario Regulation 127/01
This product contains the following chemicals subject to the reporting requirements of Canada NPRI +/- or Ont. Reg. 127/01:

<table>
<thead>
<tr>
<th>Chemical</th>
<th>CAS No.</th>
<th>% Wt</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

European Inventory of Existing Commercial Chemical Substances (EINECS)
All ingredients in this product or used to manufacture this product are exempt from, or included on, the European Inventory of Existing Commercial Chemical Substances. EEC R-Phrases are not included in this MSDS

Additional Information
No additional information. This product may be regulated under additional regulations and laws not identified above, such as for uses other than described or as-designed/as-intended by the manufacturer, or for distribution outside of the USA/Canada.

SECTION 16: OTHER INFORMATION
OTHER INFORMATION
Not applicable for distribution into commerce within the USA or Canada.

Sources of Information
- Ontario Ministry of Labour Regulation 654/86. Regulations Respecting Exposure to Chemical or Biological Agents.
- RTECS – Registry of Toxic Effects of Chemical Substances, National Institute for Occupational Safety and Health.

PREPARATION INFORMATION
DATE OF ISSUE: July 02, 2009      SUPERSEDES: April 22, 2008

DISCLAIMER
Berry plastics makes no warranties as to the accuracy or completeness of this information and disclaims any liability in connection with its use. Berry plastics obligation shall be only as set forth in Berry plastics standard terms and conditions of sale for this product. In no case will Berry plastics be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product.

The information presented herein was prepared at Berry plastics by qualified technical personnel, and to our knowledge it is true and accurate. The information and recommendations are furnished for this product with the understanding that the purchaser will independently determine the suitability of the product for this purpose. The data do not constitute a warranty, expressed or implied, statutory or otherwise, nor are they a representation for which Berry plastics assumes legal responsibility. The data are submitted for the user’s information and consideration only. Any use of this product must be determined by the user to be in accordance with the applicable federal, state, and local laws and regulations.