Decratex Flake Resin – Part A

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR PREPARATION AND THE COMPANY**

Product Name: DECRACTEX FLAKE RESIN – PART A
Company Name: Polycote UK
Centre Point • Wolseley Road
Woburn Road Industrial Estate
Kempston • Beds MK 42 7EF
Telephone Number: 01234 846400

**SECTION 2: HAZARDS IDENTIFICATION**

Main Hazards: Irritating to eyes and skin. May cause sensitisation by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Other Hazards: Not classified as flammable but will burn.

**SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

Hazardous Ingredients:
- **BISPHENOL A-EPICHLORHYDRIN (REACTION PRODUCT)** 50-70%
  - EINECS: 500-033-5 CAS: 25068-38-6
  - [Xi] R36/38; [Sens.] R43; [N] R51/53
- **BISPHENOL F EPICHLORHYDRIN RESIN WITH NUMBER AVERAGE 10-30%**
  - CAS: 28064-14-4
  - [Xi] R36/38; [Sens.] R43; [N] R51/53
- **ALIPHATIC GLYCIDYLETHER 10-30%**
  - CAS: 68081-84-5
  - [Xi] R36/38; [Sens.] R43; [N] R51/53

Contains: Blend of liquid epoxy resin(s) and a reactive diluent.

**SECTION 4: FIRST AID MEASURES**

Skin Contact: There may be irritation and redness at the site of contact.

Eye Contact: There may be irritation and redness. If contact with eyes, DO NOT DELAY Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. If ingested, DO NOT induce vomiting. If rapid recovery does not occur, obtain medical attention.

Inhalation: No specific measures.

**SECTION 5: FIRE FIGHTING MEASURES**

Extinguishing Media: Foam, water spray or fog. Use water spray to cool containers. Unsuitable extinguishing media is water in a jet.

Exposure Hazards: Not classified as flammable but will burn. Carbon monoxide may evolve if incomplete combustion occurs.

Protection of Fire-Fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

Personal Precautions: Do not attempt to take action without suitable protective clothing - see section 8 of SDS.

Environmental Precautions: Do not discharge into drains or rivers. Contain the spillage using bunding. If the material enters drains it should be pumped out into an open vessel, emergency services should be called to assist in this operation.

Clean-up Procedures: Refer to section 13 of SDS for suitable method of disposal. Small spillage: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Scrub contaminated surfaces with detergent solution. Retain washings as contaminated waste. Put leaking containers in a labelled drum or overdrum. Large spillages: Transfer to a labelled container for product recovery or safe disposal - otherwise treat as for small spillage.

**SECTION 7: HANDLING AND STORAGE**

Handling requirements: Ensure there is sufficient ventilation of the area. Avoid direct contact with the substance.

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed. Store at ambient temperature. Avoid incompatible materials and conditions - see section 10 of SDS.

**SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION**

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Not required under normal conditions in a well-ventilated workplace. In poorly ventilated areas use an approved organic vapour cartridge mask.

Hand protection: Material of gloves for long term application (BTT>480min) Material of gloves for short term/splash application. Breakthrough time of the glove material > 8 hours. Nitrie gloves. Butyl gloves. Neoprene gloves. PVC gloves. Use gloves approved to relevant standards e.g. EN 374 (Europe), FT39 (US) Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material and dexterity. Always seek advice from glove suppliers.

Eye protection: Goggles giving complete protection to eyes and eyewash bottle with clean water.

Skin protection: Protective clothing with elasticated cuffs and closed neck. Boots made of PVC.
### SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>Pale yellow</td>
</tr>
<tr>
<td>Odour</td>
<td>Barely perceptible odour</td>
</tr>
<tr>
<td>Oxidising</td>
<td>Non-oxidising (by EC criteria)</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>11.6 mg/l @ 20°C</td>
</tr>
<tr>
<td>Viscosity</td>
<td>0.7 - 1.1 Pa.s : 25°C ASTM D-445</td>
</tr>
<tr>
<td>Boiling point/Range°C</td>
<td>150°C</td>
</tr>
<tr>
<td>Flash point°C</td>
<td>&gt;150</td>
</tr>
<tr>
<td>Part.coef. n-octanol/water</td>
<td>Not determined</td>
</tr>
<tr>
<td>Autoflammability°C</td>
<td>ca.400°C</td>
</tr>
<tr>
<td>Vapour Pressure</td>
<td>&lt;0.1 mbar at 20°C</td>
</tr>
<tr>
<td>Relative Density</td>
<td>1.120kg/m3 at 25°C</td>
</tr>
</tbody>
</table>

### SECTION 10: STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stability</td>
<td>Stable under normal conditions. Reacts with strong oxidising agents.</td>
</tr>
<tr>
<td>Conditions to Avoid</td>
<td>Caustic soda can induce vigorous polymerisation at temperatures around 200°C</td>
</tr>
<tr>
<td>Materials to Avoid</td>
<td>Strong mineral acids Caustic soda.</td>
</tr>
<tr>
<td>Haz. Decomp. Products</td>
<td>Hazardous decomposition products are not expected to form during normal storage. Polymerises exothermically with amines, mercaptans and Lewis acids at ambient temperature and above. Polymerises in contact with caustic soda. Reacts exothermically with bases (e.g: caustic soda), ammonia, primary and secondary amines, alcohols and acids.</td>
</tr>
</tbody>
</table>

### SECTION 11: TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Toxicity</td>
<td>ORL LD50 &gt;2000 mg/kg</td>
</tr>
<tr>
<td>Hazardous Ingredients</td>
<td>BISPHEONOL A-(EPICHLORHYDRIN) (REACTION PRODUCT)</td>
</tr>
<tr>
<td>- ORL MUS LD50 15600 mg/kg</td>
<td></td>
</tr>
<tr>
<td>- ORL RAT LD50 11400 mg/kg</td>
<td></td>
</tr>
<tr>
<td>- SKN RBT LD50 &gt;20 ml/kg</td>
<td></td>
</tr>
<tr>
<td>Chronic Toxicity</td>
<td>Danger of cumulative effects if swallowed. May cause sensitisation by inhalation. May cause sensitisation by skin contact. Not expected to be a mutagenic hazard</td>
</tr>
<tr>
<td>Routes of Exposure</td>
<td>Slight eye irritant. Expected to be a skin sensitisier. Basis for assessment: - Information given is based on data on the components and the toxicology of similar products.</td>
</tr>
</tbody>
</table>

### SECTION 12: ECOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ecotoxicity</td>
<td>ALGAE &lt;LC/EC/IC 50 10 mg/l FISH &lt;LC/EC/IC 50 10 mg/l INVERTEBRATES &lt;LC/EC/IC 50 10 mg/l</td>
</tr>
<tr>
<td>Mobility</td>
<td>Sinks in water. If product enters soil, one or more constituents will be mobile and may contaminate groundwater.</td>
</tr>
<tr>
<td>Persistence and degradability</td>
<td>Expected to be not readily biodegradable</td>
</tr>
<tr>
<td>Bioaccumulative potential</td>
<td>Bioaccumulation potential.</td>
</tr>
<tr>
<td>Other adverse effects</td>
<td>Sewage treatment: Expected to be practically non toxic, LC/EC/IC 50&gt; 100mg/l.</td>
</tr>
</tbody>
</table>

### SECTION 13: DISPOSAL CONSIDERATIONS

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disposal Operations</td>
<td>Recover or recycle if possible, otherwise, incinerate. Dispose to licensed disposal contractor.</td>
</tr>
<tr>
<td>Disposal of Packaging</td>
<td>Drain container thoroughly. Rinse three times with suitable solvent Treat rinsings as for product disposal. After draining, vent in a safe place away from sparks and fire Where practical, containers and packaging should be recycled by a licensed contractor. Arrange for collection by specialised disposal company.</td>
</tr>
<tr>
<td>NB</td>
<td>The recommendations given are considered appropriate for safe disposal. However, local regulations may be more stringent and these must be complied with.</td>
</tr>
</tbody>
</table>

### SECTION 14: TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADR/RID</td>
<td></td>
</tr>
<tr>
<td>UN no:</td>
<td>3082</td>
</tr>
<tr>
<td>Class:</td>
<td>9</td>
</tr>
<tr>
<td>Haz. Decomp. Products</td>
<td></td>
</tr>
<tr>
<td>Packing group</td>
<td>III</td>
</tr>
<tr>
<td>Shipping Name</td>
<td>ENVIROMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LIQUID EPOXY RESIN, ALIPHATIC GLYCIDYL ETHER)</td>
</tr>
<tr>
<td>Labelling</td>
<td>9</td>
</tr>
<tr>
<td>IATA / ICAO</td>
<td></td>
</tr>
<tr>
<td>UN no:</td>
<td>3082</td>
</tr>
<tr>
<td>Class:</td>
<td>9</td>
</tr>
<tr>
<td>Packing group</td>
<td>III</td>
</tr>
<tr>
<td>Packing Instructions</td>
<td>914</td>
</tr>
<tr>
<td>Labelling</td>
<td>9</td>
</tr>
<tr>
<td>IMDG/IMO</td>
<td></td>
</tr>
<tr>
<td>UN no:</td>
<td>3082</td>
</tr>
<tr>
<td>Class:</td>
<td>9</td>
</tr>
<tr>
<td>Packing group</td>
<td>III</td>
</tr>
<tr>
<td>Marine Pollutant</td>
<td>Yes</td>
</tr>
<tr>
<td>Labelling</td>
<td>9</td>
</tr>
</tbody>
</table>
SECTION 15: REGULATORY INFORMATION

Hazard Symbols: Irritant. Dangerous for the environment.
Risk Phrases: R36/38: Irritating to eyes and skin.
R43: May cause sensitisation by skin contact.
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases: S24: Avoid contact with skin.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28: After contact with skin, wash immediately with plenty of soap and water.
S37/39: Wear suitable gloves and eye / face protection.
S61: Avoid release to the environment. Refer to special instructions / safety data sheets.

Precautionary Phrases: Labelling according to EC Directives: Contains:
EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <700)

Haz. Ingredients (label): BISPHENOL A-(EPICHLOORHYDRIN) (REACTION PRODUCT); BISPHENOL F EPICHLOORHYDRIN RESIN WITH NUMBER AVERAGE; ALIPHATIC GLYCIDYLETHER

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user’s attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

SECTION 16: OTHER INFORMATION

Notification status: EU - EINECS: Included on EINECS inventory or polymer substance, monomers included on EINECS inventory or no longer polymer.
USA - TSCA: Included on Inventory
Canada - DSL: Included on Inventory
Australia - AICS: Included on Inventory.
IECSC: All components listed.
KECI (KR): All components listed.
Philippines - PICCS: Included on Inventory.

Risk Phrases Used in s.3: R36/38: Irritating to eyes and skin.
R43: May cause sensitisation by skin contact.
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

The Safety Data Sheet is applicable to the product only as used according to the purposes and methods described on the relevant Technical Data Sheet, available from Polycote UK on request.

The information above is based on our present knowledge and is believed to be correct but does not purport to be all inclusive and should only be used as a guide. No warranty is implied with respect to the specification of the product. It is intended to describe the product solely in terms of its safety requirements and relates only to the specific material designed and may not be valid for such material used in combination with any other materials or in any process. This data does not constitute the user's assessment of workplace risk as required by other Health and Safety legislation, nor is it a sales specification or indication of suitability for any particular use. The user must satisfy himself as to the suitability of the product for his purpose. No legally valid contractual relationship is established by the above data, and Polycote UK shall not be held liable for any damage resulting from handling or from contact with the above product.

Date of Issue: November 2011
MATERIAL SAFETY DATA SHEET

Decratex Flake Resin – Part B

SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR PREPARATION AND THE COMPANY

Product Name: DECRATEX FLAKE RESIN – PART B
Company Name: Polycote UK
Centre Point • Woburn Road Industrial Estate
Kempton • Beds MK42 7EF
Telephone Number: 01234 846400

SECTION 2: HAZARDS IDENTIFICATION

Main hazards: Risk of serious damage to eyes. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients: NONYLPHENOL 1-10%
EINECS: 246-672-0 CAS: 25154-52-3
[Xn] R62; [Xn] R63; [Xn] R22; [C] R34; [N] R50/53
POLYAMINE ADDUCT 30-50%
[X] R41

SECTION 4: FIRST AID MEASURES

Skin contact: There may be irritation and redness at the site of contact. Wash immediately with plenty of soap and water. Clean with detergents, avoid solvents.
Eye contact: There may be irritation and redness. May cause permanent damage. Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.
Ingestion: Do not induce vomiting. If conscious, give half a litre of water to drink immediately. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.
Inhalation: Remove to fresh air if feeling unwell. If symptoms persist, call a Doctor.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing media: Water spray. Carbon dioxide. Alcohol or polymer foam. Dry chemical powder. Unsuitable extinguishing media is water in a jet.
Exposure hazards: In combustion emits toxic fumes. In combustion emits toxic fumes of nitrogen oxides.
Protection of firefighters: Wear protective clothing to prevent contact with skin and eyes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions: Refer to section 8 of SDS for personal protection details. Keep away from sources of ignition - No smoking. Avoid contact with skin and eyes. Avoid inhalation of vapour.
Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding. Do not contaminate surface water - avoid subsoil penetration.
Clean-up procedures: Absorb into dry earth or sand. Transfer to a suitable container. Wash the spillage site with large amounts of water.

SECTION 7: HANDLING AND STORAGE


SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering measures: No special precautions required.
Respiratory protection: Suitable respiratory protective device Gas/vapour filter, type A: organic vapours (EN141).
Hand protection: Butyl gloves. Ethyl Vinyl Alcohol Laminate (EVAL) Material of gloves for short term/splash application. Nitrile gloves. Neoprene gloves. Use gloves approved to relevant standards e.g. EN 374 (Europe), F739 (US) Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material and dexterity. Always seek advice from glove suppliers.
Eye protection: Goggles giving complete protection to eyes and eyewash bottle with clean water.
Skin protection: Protective clothing with elasticated cuffs and closed neck. Boots.

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

State: Liquid
Colour: Pale yellow
Odour: Perceptible odour
Oxidising: Non-oxidising (by EC criteria)
Solubility in water: Miscible
Boiling point/range°C: >100
Flash point°C: >100 does not flash
pH: approx:10

SECTION 10: STABILITY AND REACTIVITY

Conditions to avoid: Take necessary action to avoid static electricity discharge.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity: ORL RAT LD50 >2,000 mg/kg
Hazardous ingredients: NONYLPHENOL
ORL MUS LD50 1231 mg/kg
ORL RAT LD50 580 mg/kg
Chronic toxicity: Risk of serious damage to eyes - Rabbit Irritating to skin. Rabbit. Dermal Routes of exposure: Not a skin sensitiser

SECTION 12: ECOLOGICAL INFORMATION

Other adverse effects: Avoid subsoil penetration – prevent product from entering drains – do not contaminate surface water.
SECTION 13: DISPOSAL CONSIDERATIONS

Disposal operations: Must be incinerated, when in compliance with local regulations.

Waste code number: 070208

Disposal of packaging: Empty containers can be landfilled after cleaning, when in compliance with the Environmental Protection (Duty of Care) Regulations 1991.

NB: The user’s attention is drawn to the possible existence of regional or national regulations regarding disposal.

SECTION 14: TRANSPORT INFORMATION

ADR/RID
UN no: 3082 ADR Class: 9
Packaging group: III Classification code: M6
Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (4-NONYL PHENOL)
Labelling: 9 Hazard ID no: 90

IMDG/IMO
UN no: 3082 Class: 9
Packaging group: III EmS: FA, S-F
Marine pollutant: YES
Labelling: 9

IATA / ICAO
UN no: 3082 Class: 9
Packaging group: III
Packing instructions: 914 Labelling: 9

SECTION 15: REGULATORY INFORMATION

Hazard symbols: Irritant.
Dangerous for the environment.

Risk phrases: R41: Risk of serious damage to eyes.
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases: S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S39: Wear eye / face protection.
S61: Avoid release to the environment. Refer to special instructions / safety data sheets.

Haz. ingredients (label): NONYLPHENOL; POLYAMINE ADDUCT

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user’s attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

SECTION 16: OTHER INFORMATION

Risk phrases used in s.3: R62: Possible risk of impaired fertility.
R63: Possible risk of harm to the unborn child.
R22: Harmful if swallowed.
R34: Causes burns.
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R41: Risk of serious damage to eyes.

The Safety Data above is applicable to the product only as used according to the purposes and methods described on the relevant Technical Data Sheet, available from Polycote UK on request.

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