Material Safety Data Sheet

Date Originated: 08/06/2009

<table>
<thead>
<tr>
<th>NFPA</th>
<th>HCS Risk Phrases</th>
<th>Protective Clothing</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>HCS CLASS: Toxic.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>HCS CLASS: Corrosive liquid.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>HCS CLASS: Target organ effects.</td>
<td></td>
</tr>
</tbody>
</table>

Section 1. Chemical Product and Company Identification

**Product Name**

Polyflex 401B Black Resin

**Synonym**

WP401B.79

**Manufacturer**

SUPPLIER:
Wasser Corporation
4118 B PL NW, Suite B
Auburn, WA 98001, US
Phone# 253-850-2967

**Chemical Family**

Not available (PAINT).

In case of Emergency

EMERGENCY PHONE NUMBERS:
USA and Canada: 1-800 424-9300
International: 1-703 527-3887

Section 2. Composition and Information on Ingredients

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS #</th>
<th>% by Weight</th>
<th>TLV/PEL</th>
<th>LC₅₀/LD₅₀</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poly(oxy(methyl-1,2-ethanediyl)), alpha-(2-aminomethylethyl)omega-(2-aminomethylethoxy)</td>
<td>9046-10-0</td>
<td>30-60</td>
<td>Not available.</td>
<td>ORAL (LD₅₀): Acute: 480 mg/kg [Rat]. DERMAL (LD₅₀): Acute: 2090 mg/kg [Rabbit].</td>
</tr>
<tr>
<td>2,4-Diethyltoluenediamine</td>
<td>2095-02-5</td>
<td>10-30</td>
<td>Not available.</td>
<td>ORAL (LD₅₀): Acute: 504 mg/kg [Rat]. ORAL (LD₅₀): Acute: 2700 mg/kg [Rat]. DERMAL (LD₅₀): Acute: 12500 mg/kg [Rabbit].</td>
</tr>
<tr>
<td>Glyceryl Poly(oxypropylene) triamine</td>
<td>64852-22-8</td>
<td>10-30</td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td>2,6-Diethyltoluenediamine</td>
<td>2095-01-4</td>
<td>1-5</td>
<td>TWA: 0.02 (ppm)</td>
<td>ORAL (LD₅₀): Acute: 504 mg/kg [Rat].</td>
</tr>
<tr>
<td>Carbon Black</td>
<td>1333-86-4</td>
<td>0-1</td>
<td>TWA: 3.5 (mg/m³) from ACGIH</td>
<td>Not available.</td>
</tr>
</tbody>
</table>
Section 3. Hazards Identification

### Potential Acute Health Effects

**Eyes:** Causes irritation experienced as pain, seen as extreme redness and swelling of the eye. This product can cause chemical burns.

**Skin:** Corrosive to skin on contact. Skin contact may produce burns, possibly methemoglobinemia (with symptoms of cyanosis).

**Ingestion:** May cause burns to mouth, throat and stomach. Aspiration may occur during swallowing or vomiting, resulting in lung damage.

**Inhalation:** Inhalation of the spray mist or form vapours (especially those generated from heating the product) may produce severe irritation of the nose, throat and respiratory tract.

### Potential Chronic Health Effects

**Eyes:** Not available

**Skin:** Repeated skin exposure can cause persistent irritation or dermatitis.

**Ingestion:** Not available.

**Inhalation:** Repeated inhalation may cause lung damage.

### Other chronic effects on Humans

Sensitive individuals may develop eczema and/or asthma on contact with this material.

Section 4. First Aid Measures

**Eye Contact**

Check for and remove any contact lenses. IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. DO NOT use an eye ointment. Seek medical attention.

**Skin Contact**

Rinse with plenty of running water (15-30 minutes). Dermal contact with this corrosive liquid causes severe skin irritation. Do not apply greases or ointments. SEEK MEDICAL ATTENTION.

**Hazardous Skin Contact**

If the chemical gets onto the clothed portion of the body, remove the contaminated clothes as quickly as possible, protecting your own hands and body. Place the person under shower. If the chemical touches the person's exposed skin, such as the hands, gently and thoroughly wash the contaminated skin with running water. Be particularly careful to clean folds, crevices, creases and groin. Dermal contact with this corrosive liquid causes severe skin irritation. Do not apply greases or ointments. Control shock, if present. SEEK IMMEDIATE MEDICAL ATTENTION.

**Inhalation**

Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

**Hazardous Inhalation**

Evacuate the person to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the person is not breathing, perform mouth-to-mouth resuscitation. WARNING: It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.

**Ingestion**

DO NOT induce vomiting. Have conscious person drink several glasses of water or milk. Seek immediate medical attention.

**Hazardous Ingestion**

DO NOT induce vomiting. Have conscious person drink several glasses of water or milk. Loosen tight clothing such as a collar, tie, belt or waistband. Never give an unconscious person anything to ingest. If the person is not breathing, administer mouth-to-mouth resuscitation. WARNING: It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation when the material is toxic, infectious or corrosive. Avoid mouth-to-mouth contact by using mouth guards or shields. Seek immediate medical attention.
Section 5. Fire and Explosion Data

Flammability of the Product: Combustible.

Auto-Ignition Temperature: Not available.

Flash Points: The lowest known value is CLOSED CUP: 160°C (320°F) (Pensky-Martens). (2,4-Diethyltoluenediamine)

Flammable Limits: Not available.

Products of Combustion: Carbon oxides (CO, CO2), nitrogen oxides (NO, NO2…) and other identified, possible toxic compounds.

Fire Hazards in Presence of Various Substances: Combustible in presence of open flames and sparks.


Fire Fighting Media and Instructions: SMALL FIRE: Use DRY chemicals, CO2, alcohol foam or water spray. LARGE FIRE: Use alcohol foam, water spray or fog. Never direct a water jet in the container in order to prevent any splashing of the product which could cause spreading of the fire. Cool containing vessels with water spray or fog in order to prevent pressure build-up, autoignition or explosion.

Special Remarks on Fire Hazards: Container explosion may occur under fire conditions or when heated.

Special Remarks on Explosion Hazards: No additional remarks.

Section 6. Accidental Release Measures

Small Spill: Absorb with an inert material and place in an appropriate waste disposal container. Warn personnel to move away. Wear suitable protective clothing and proper respirator.

Large Spill: Combustible liquid. Corrosive liquid. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. DO NOT get water inside container. DO NOT touch spilled material. Try to work in the in the same direction as the wind is blowing relative to the spilt product. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all sources of ignition. Call for assistance on disposal.
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Section 7. Handling and Storage

Precautions
Keep locked up. Keep container dry. Keep away from heat. Do not breathe gas, fumes, vapor or spray. Never add water to this product. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents.

Storage

Section 8. Exposure Controls/Personal Protection

Engineering Controls
Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash station and safety shower is proximal to the work-station location.

Personal Protection
Face shield. Full suit. Gloves. Boots. Wear appropriate respirator when ventilation is inadequate. Be sure to use a MSHA/NIOSH approved respirator or equivalent.

Personal Protection in Case of a Large Spill

Section 9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Physical state and appearance</th>
<th>Odor</th>
<th>Molecular Weight</th>
<th>Taste</th>
<th>Color</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>pH (1% soln/water)</th>
<th>Odor Threshold</th>
<th>Boiling Point</th>
<th>Melting Point</th>
<th>Critical Temperature</th>
<th>Viscosity</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Specific Gravity</th>
<th>Water/Oil Dist. Coeff.</th>
<th>Vapor Pressure</th>
<th>Ionicity (in Water)</th>
<th>Vapor Density</th>
<th>Dispersion Properties</th>
<th>Solubility</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Volatility</th>
<th>Evaporation rate</th>
<th>Stability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-volatile.</td>
<td>Not available.</td>
<td>The product is stable.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Instability Temperature</th>
<th>Conditions of Instability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available.</td>
<td>No additional remarks.</td>
</tr>
</tbody>
</table>

Incompatibility with various substances
Reactive with strong oxidizing agents and acids.

Corrosivity
Non-corrosive in presence of glass.

Special Remarks on Reactivity
No additional remarks.

Special Remarks on Corrosivity
No additional remark.
**Section 11. Toxicological Information**

<table>
<thead>
<tr>
<th>Routes of Entry</th>
<th>Eye contact. Ingestion.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toxicity to Animals</td>
<td>See: Section II</td>
</tr>
<tr>
<td>Chronic Effects on Humans</td>
<td>Sensitive individuals may develop eczema and/or asthma on contact with this material.</td>
</tr>
<tr>
<td>Other Toxic Effects on Humans</td>
<td>Very dangerous in case of skin contact (corrosive), of eye contact (corrosive).</td>
</tr>
</tbody>
</table>

**Special Remarks on Toxicity to Animals**


**Special Remarks on Chronic Effects on Humans**

- Repeated skin contact may cause persistent irritation or dermatitis.
- Repeated inhalation may cause lung damage.

**Special Remarks on other Toxic Effects on Humans**

- No additional remarks.

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**Section 12. Ecological Information**

<table>
<thead>
<tr>
<th>Ecotoxicity</th>
<th>Not available.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOD5 and COD</td>
<td>Not available.</td>
</tr>
<tr>
<td>Products of Biodegradation</td>
<td>Not available.</td>
</tr>
<tr>
<td>Toxicity of the Products of Biodegradation</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

**Special Remarks on the Products of Biodegradation**

- No additional remarks.

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**Section 13. Disposal Considerations**

| Waste Disposal | Recycle to process, if possible. Consult your local or regional authorities. |

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**Section 14. Transport Information**

<table>
<thead>
<tr>
<th>DOT Classification</th>
<th>DOT CLASS 8: Corrosive liquid P.G. III.</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT Identification number</td>
<td>UN3066 Paint</td>
</tr>
<tr>
<td>Special Provisions for Transport</td>
<td>No additional remarks.</td>
</tr>
<tr>
<td>DOT (Pictograms)</td>
<td>&quot;CORROSIVE&quot;</td>
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Section 15. Other Regulatory Information and Pictograms

Other Regulations

Other Classifications
WHMIS (Canada)
DSCL (EEC)

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

<table>
<thead>
<tr>
<th>Hazard</th>
<th>Health</th>
<th>Fire Hazard</th>
<th>Reactivity</th>
<th>Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health Hazard</td>
<td>3</td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Fire Hazard</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Reactivity</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Personal Protection</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

National Fire Protection Association (U.S.A.)

<table>
<thead>
<tr>
<th>Health Hazard</th>
<th>Fire Hazard</th>
<th>Reactivity</th>
<th>Specific Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

WHMIS (Canada)
(Pictograms)

DSCL (Europe)
(Pictograms)

TDG (Canada)
(Pictograms)

ADR (Europe)
(Pictograms)

Protective Clothing
(Pictograms)

Section 16. Other Information

References
Manufacturer's MSDS, RTESC, NIOSH, CCOHS.

Other Special Considerations
Individuals with respiratory problems (asthma, chronic bronchitis) should avoid any contact with this product.

Validated by Heidi Brown on 08/06/2009.
Verified by Heidi Brown.
Printed 08/06/2009.

EMERGENCY PHONE NUMBERS:
USA and Canada: 1-800 424-9300
International: 1-703 527-3887

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