

# MATERIAL SAFETY DATA SHEET

## Staycell™ 245-2.0, Component B

<b>1. Product and Company Identification</b>			
<b>Manufacturer</b> Preferred Solutions, Inc. 7819 Broadview Road Cleveland, OH 44131  <b>Company Contact:</b> Jack S. Stahl <b>Telephone Number:</b> 800-522-4522 <b>Fax Number:</b> 216-642-1166		<b>Manufacturer Emergency Contacts &amp; Phone Number</b> CHEMTREC: 800-424-9300	
<b>Issue Date:</b> 04/03/07			
<b>Product Name:</b> Staycell™ 245-2.0, Component B			
<b>2. Composition/Information On Ingredients</b>			
Ingredient Name	CAS Number		Percent of Total Weight
hydrofluorocarbons	460-73-1		7 -13
2-butoxyethanol	111-76-2		1- 5
2,2'-oxybis(n,n-dimethylentanamine)	3033-62-3		0 - 1.5
aromatic diamine	68479-98-1	<	0.1 - 5
dimethylcyclohexylamine	98-94-2		0.1 - 5
polyol blend	Not Available		40 - 100
chlorinated phosphate ester	13674-84-5		7 - 13
<b>EMERGENCY OVERVIEW</b>			
<p><b>CAUTION. Direct skin and eye contact may cause irritation or burns.</b></p> <p><b>Appearance/Odor:</b> Amber colored liquid with a slight aromatic odor.</p>			
<b>3. Hazards Identification</b>			
<b>Primary Route(s) of Entry</b> Skin & Eye Contact, Inhalation.			
<b>Eye Hazards</b> May cause eye irritation. Irritation may be severe, causing burns and leading to permanent eye damage.			
<b>Skin Hazards</b> May cause skin irritation. Irritation may be severe resulting in burns to the skin from prolonged contact. A minor constituent in this product is in a class of compounds that may cause cholinesterase inhibition. Symptoms of such inhibition may include salivation, sweating, headache, nausea and abdominal cramps.			
<b>Ingestion Hazards</b> Harmful if swallowed. Ingestion may cause: corrosive lesions of the mouth, throat and esophagus, gastrointestinal upset, nausea and vomiting, abdominal pain, central nervous system depression and neurological disorders. Ingestion may result in injury to the liver and kidneys.			
<b>3. Hazards Identification - Continued</b>			
<b>Inhalations Hazards</b> Inhalation of vapors or mists may cause irritation of the nose and throat. Symptoms of respiratory tract irritation include sore throat, coughing, wheezing, and shortness of breath. Severe cases can result in pulmonary edema and even death. A minor constituent in this product is in a class of compounds that may cause cholinesterase inhibition. Symptoms of such inhibition may include salivation, sweating, headache, nausea and abdominal cramps.			

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### **Chronic/Carcinogenicity Effects**

None of the ingredients of this product comprising over 0.1% are classified as carcinogenic according to OSHA, National Toxicology Program (NTP), International Agency for Research on Cancer (IARC) or the American Conference of Governmental Industrial Hygienists (ACGIH).

### **Reproductive Effects**

This product contains a material (lead naphthenate) that may cause adverse reproductive effects.

### **4. First Aid Measures**

#### **Eye**

In case of contact, hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately. Remove contact lenses, if worn.

#### **Skin**

Remove contaminated clothing and shoes. In case of contact, immediately flush skin with plenty of water for at least 15 minutes. Get medical attention immediately.

#### **Ingestion**

Call a physician or a poison control center immediately.

#### **Inhalation**

Remove the person from the contaminated area to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately.

### **5. Fire Fighting Measures**

**Flash Point:** 269° F.

**Flash Point Method:** closed cup

**Lower Explosive Limit:** 7.1%

**Upper Explosive Limit:** 17.7%

#### **Fire and Explosion Hazards**

Thermal decomposition (burning) may release irritating, corrosive and/or toxic gases, vapors and fumes. Closed containers may explode when heated due to increased pressure. Do not puncture, cut open or reuse empty containers.

#### **Extinguishing Media**

Use the appropriate extinguishing media for the surrounding fire. Water spray or fog, carbon dioxide (CO<sup>2</sup>), dry chemical, alcohol foam.

#### **Fire Fighting Instructions**

Firefighters should wear self-contained breathing apparatus and full protective gear.

### **6. Accidental Release Measures**

Eliminate all ignition sources. Use appropriate personal protective equipment (PPE). Contain and/or absorb spill with inert material (e.g. sand, vermiculite). Collect and dispose. Avoid runoff to waterways and sewers.

### **7. Handling and Storage**

#### **Handling and Storage Precautions**

Keep containers tightly closed. Store in a cool, dry, well-ventilated area. Protect from physical damage. Use only with adequate ventilation. Wash thoroughly after handling. Empty containers may contain hazardous residue, do not reuse. Open containers slowly to allow any pressure build-up to vent safely. Do not open or spray near eyes and face.

### **8. Exposure Controls/Personal Protection**

#### **Engineering Controls**

Use with adequate ventilation. When used outdoors, stay well away from building air intakes or close the intakes to prevent product from entering building.

#### **Eye/Face Protection**

Safety glasses with side shields or goggles recommended.

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### **Skin Protection**

Use with chemical-protective gloves to prevent excessive skin contact. Chemical-resistant gloves made of rubber can be used.

### **Respiratory Protection**

The level of respiratory protection needed should be based on the evaluation of chemical exposures by a health or safety professional. If required, use a NIOSH-approved air-purifying respirator with organic vapor cartridge or supplied air respirator.

Occupational Exposure Limits for individual ingredients (if available) are listed below.

### **Ingredient(s) - Exposure Limits**

2-butoxyethanol

ACGIH TLV-TWA 20 ppm

OSHA PEL-TWA 50 ppm (Skin)

2,2'-oxybis(n,n-dimethylethanamine)

ACGIH TLV-STEL 0.15 ppm (Skin)

ACGIH TLV-TWA 0.05 ppm (Skin)

## **9. Physical and Chemical Properties**

### **Appearance**

Amber colored liquid

### **Odor**

Low, slight aromatic

**Chemical Type:** Mixture

**Physical State:** Liquid

**Boiling Point:** not available °F.

**Specific Gravity:** 1.2 at 70° F.

**Vapor Pressure:** not available

**pH Factor:** 7-10

**Solubility:** moderate in water

## **10. Stability and Reactivity**

**Stability:** Stable

**Hazardous Polymerization:** Will not occur

### **Incompatible Materials**

Avoid contact with strong oxidizing agents, acids.

### **Hazardous Decomposition Products**

Toxic and irritating gases, vapors or fumes of: carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), oxides of nitrogen, hydrogen fluoride, aldehydes, ketones


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<b>11. Toxicological Information</b>
<b>Miscellaneous Toxicological Information</b> Toxicological testing has not been conducted for this product overall. Available toxicological data for individual ingredients are summarized below.
<b>Ingredients(s) - Toxicological Data</b> 2-butoxyethanol oral-rat LD50: 500 mg/kg 2,2'-oxybis(n,n-dimethylethanamine) oral-rat LD50: 570 mg/kg dermal-rabbit LD50: 750 mg/kg aromatic diamine oral-rat LD50: 542 mg/kg dimethylcyclohexylamine oral-mouse LD50: 320 mg/kg dermal-rat LD50: 370 mg/kg inhal-rat LC 50: 1100 mg/m <sup>3</sup> /2 hr chlorinated phosphate ester oral-rat LD50: 2800 mg/kg inhal-rat LC50: 4.6 mg/L/4H
<b>12. Ecological Information</b>
No specific information available.
<b>13. Disposal Considerations</b>
Dispose in accordance with applicable federal, state and local government regulations. Avoid/prevent release to the environment.
<b>14. Transport Information</b>
Not Regulated - Resin Compound
<b>15. Regulatory Information</b>
<b>Sara Hazard Classes</b> Acute Health Hazard
<b>Ingredient(s) - U.S. Regulatory Information</b> 2-butoxyethanol SARA Title III - Section 313 Form "R"/TRI Reportable Chemical
<b>Ingredient(s) - State Regulations</b> 2-butoxyethanol New Jersey - Workplace Hazard New Jersey - Environmental Hazard Pennsylvania - Workplace Hazard Massachusetts - Hazardous Substance New York City - Hazardous Substance dimethylcyclohexylamine New Jersey - Workplace Hazard New Jersey - Special Hazard New York City - Hazardous Substance
<b>15. Regulatory Information - Continued</b>
<b>Canadian Regulatory Information</b> This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR. WHMIS Classification: D1B - Toxic
<b>Ingredient(s) - Canadian Regulatory Information</b> 2-butoxyethanol WHMIS - Ingredient Disclosure List dimethylcyclohexylamine

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WHMIS - Ingredient Disclosure List									
<b>WHMIS - Canada (Pictograms)</b>									
									
<b>HMIS</b>									
<table border="1"><tr><td>HEALTH</td><td>2</td></tr><tr><td>FLAMMABILITY</td><td>1</td></tr><tr><td>REACTIVITY</td><td>0</td></tr><tr><td>PERSONAL PROTECTION</td><td></td></tr></table>	HEALTH	2	FLAMMABILITY	1	REACTIVITY	0	PERSONAL PROTECTION		
HEALTH	2								
FLAMMABILITY	1								
REACTIVITY	0								
PERSONAL PROTECTION									
<b>16. Other Information</b>									
<b>Revision/Preparer Information</b>									
This MSDS Supersedes A Previous MSDS Dated: 05/12/05									
<b>Disclaimer</b>									
Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained therein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purposes.									
<b>PREFERRED SOLUTIONS, INC.</b>									