



MATERIAL SAFETY DATA SHEET

Staycell® 245-2.0, Component B

1. Product and Company Identification			
Manufacturer Preferred Solutions, Inc. 7819 Broadview Road Cleveland, OH 44131		Manufacturer Emergency Contacts & Phone Number CHEMTREC: 800-424-9300	
Company Contact: Jack S. Stahl Telephone Number: 800-522-4522 Fax Number: 216-642-1166			
Revision Date: 05/26/09. Supersedes MSDS issued 04/03/07			
Product Name: Staycell® 245-2.0, Component B			
2. Composition/Information On Ingredients			
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-dimethylthalamine)	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
EMERGENCY OVERVIEW			
CAUTION. Direct skin and eye contact may cause irritation or burns.			
Appearance/Odor: Amber colored liquid with a slight aromatic odor.			
3. Hazards Identification			
Primary Routes(s) of Entry Skin & Eye Contact, Inhalation.			
Eye Hazards May cause eye irritation. Irritation may be severe, causing burns and leading to permanent eye damage.			
Skin Hazards 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.			
Ingestion Hazards 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.			



MATERIAL SAFETY DATA SHEET

Staycell® 245-2.0, Component B

<p>3. Hazards Identification - Continued</p> <p><u>Inhalations Hazards</u> 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.</p> <p><u>Chronic/Carcinogenicity Effects</u> 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).</p>
<p>4. First Aid Measures</p> <p><u>Eye</u> 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.</p> <p><u>Skin</u> 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.</p> <p><u>Ingestion</u> Call a physician or a poison control center immediately.</p> <p><u>Inhalation</u> 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.</p>
<p>5. Fire Fighting Measures</p> <p>Flash Point: 269° F. Flash Point Method: closed cup Lower Explosive Limit: 7.1% Upper Explosive Limit: 17.7%</p> <p><u>Fire and Explosion Hazards</u> 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.</p> <p><u>Extinguishing Media</u> Use the appropriate extinguishing media for the surrounding fire. Water spray or fog, carbon dioxide (CO²), dry chemical, alcohol foam.</p> <p><u>Fire Fighting Instructions</u> Firefighters should wear self-contained breathing apparatus and full protective gear.</p>
<p>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.</p>



MATERIAL SAFETY DATA SHEET

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7. Handling and Storage
Handling and Storage Precautions Keep containers tightly sealed and stored at 50° to 75°F for maximum shelf life. Storage temperatures must not exceed 85°F. Do not store in direct sunlight. Open the container slowly to allow any pressure to be released before removing the bung. Keep drums tightly sealed when not in use to avoid contamination. Water, solvents or oil in the liquid components will degrade foam quality. Protect from heat, sparks and open flame. Do not cut or weld on or near this container. Do not smoke near container. Do not store near food or feed. Shelf Life Staycell® 245-2.0 Component A is stable for six (6) months when stored in tightly sealed drums at 50° to 75°F.
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. 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



MATERIAL SAFETY DATA SHEET

Staycell® 245-2.0, Component B

<p>Hazardous Decomposition Products: Toxic and irritating gases, vapors or fumes of: carbon monoxide (CO), carbon dioxide (CO₂), oxides of nitrogen, hydrogen fluoride, aldehydes, ketones</p>
<p>11. Toxicological Information</p>
<p>Miscellaneous Toxicological Information Toxicological testing has not been conducted for this product overall. Available toxicological data for individual ingredients are summarized below.</p>
<p><u>Ingredients(s) - Toxicological Data</u></p> <p>2-butoxyethanol oral-rat LD50: 500 mg/kg</p> <p>2,2'-oxybis(n,n-dimethylethanamine) oral-rat LD50: 570 mg/kg dermal-rabbit LD50: 750 mg/kg</p> <p>aromatic diamine oral-rat LD50: 542 mg/kg</p> <p>dimethylcyclohexylamine oral-mouse LD50: 320 mg/kg dermal-rat LD50: 370 mg/kg inhal-rat LC 50: 1100 mg/m³/2 hr</p> <p>chlorinated phosphate ester oral-rat LD50: 2800 mg/kg inhal-rat LC50: 4.6 mg/L/4H</p>
<p>12. Ecological Information No specific information available.</p>
<p>13. Disposal Considerations Dispose in accordance with applicable federal, state and local government regulations. Avoid/prevent release to the environment.</p>
<p>14. Transport Information Not Regulated - Resin Compound</p>
<p>15. Regulatory Information</p>
<p><u>Sara Hazard Classes</u> Acute Health Hazard</p>
<p><u>Ingredient(s) - U.S. Regulatory Information</u></p> <p>2-butoxyethanol SARA Title III - Section 313 Form "R"/TRI Reportable Chemical</p>
<p><u>Ingredient(s) - State Regulations</u></p> <p>2-butoxyethanol New Jersey - Workplace Hazard New Jersey - Environmental Hazard Pennsylvania - Workplace Hazard Massachusetts - Hazardous Substance New York City - Hazardous Substance</p> <p>dimethylcyclohexylamine New Jersey - Workplace Hazard New Jersey - Special Hazard New York City - Hazardous Substance</p>
<p>15. Regulatory Information - Continued</p>
<p><u>Canadian Regulatory Information</u> 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</p>

MATERIAL SAFETY DATA SHEET
Staycell® 245-2.0, Component B

Ingredient(s) - Canadian Regulatory Information

2-butoxyethanol
 WHMIS - Ingredient Disclosure List
 dimethylcyclohexylamine

WHMIS - Canada (Pictograms)



HMIS

HEALTH	2
FLAMMABILITY	1
REACTIVITY	0
PERSONAL PROTECTION	

16. Other Information

Disclaimer:

The data presented herein is not intended for use by nonprofessional applicators, or those persons who do not purchase or utilize this product in the normal course of their business. The potential user must perform any pertinent tests in order to determine the product's performance and suitability in the intended application, since final determination of fitness of the product for any particular use is the responsibility of the buyer. All guarantees and warranties as to products supplied by Preferred Solutions, Inc. shall have only those guarantees and warranties expressed in writing by the manufacturer. The buyer's sole remedy as to any material claims will be against the applicator of the product. The aforementioned data on this product is to be used as a guide and is subject to change without notice. The information herein is believed to be reliable, but unknown risks may be present. NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING PATENT WARRANTIES OR WARRANTIES OF MERCHANTABILITY OR FITNESS FOR USE, ARE MADE BY PREFERRED SOLUTIONS, INC. WITH RESPECT TO OUR PRODUCTS OR INFORMATION SET FORTH HEREIN. To the best of our knowledge, the technical data contained herein is true and accurate at the date of issuance and is subject to change without prior notice. User must contact Preferred Solutions, Inc. to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. We assume no responsibility for coverage, performance or injuries resulting from use. Liability, if any, is limited to replacement of product. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY PREFERRED SOLUTIONS, INC., EXPRESS OR IMPLIED, STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.