

# SAFETY DATA SHEET

## Staycell ONE STEP® 255, B-RESIN

Prepared in accordance with the United States Hazard Communication Standard: 29 CFR 1910.1200 (2012)      Revision Date: 06/01/2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product Name:** Staycell ONE STEP® 255, B-RESIN

**Supplier:** Preferred Solutions, Inc.  
7819 Broadview Road  
Cleveland, OH 44131  
Tel: 800-522-4522  
Fax: 216-642-1166

**Emergency Telephone Number:** PERS (US): 24 hours/7 days  
800-633-8253 Domestic  
801-629-0667 International

### 2. HAZARDS IDENTIFICATION

**GHS-US classification:**

Specific Target Organ Toxicity – Single Exposure - Category 1  
Specific Target Organ Toxicity – Repeated Exposure – Category 2  
Skin Irritation – Category 2  
Eye Irritation – Category 2B  
Acute Toxicity, Oral – Category 5

**Pictograms:**



GHS05



GHS07



GHS08

**Signal Word:**

Danger

**Hazard Statements - Health:**

H303 - Maybe harmful if swallowed.

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H320 - Causes eye irritation.  
 H315 - Causes skin irritation.  
 H370 - Causes damage to organs.  
 H373 - May cause damage to organs through prolonged or repeated exposure.

**Precautionary Statements - General:**

P101 - If medical advice is needed, have product container or label at hand.  
 P102 - Keep out of reach of children.  
 P103 - Read label before use.

**Precautionary Statements - Prevention:**

P260 - Do not breathe dust/fume/gas/mist/spray.  
 P264 - Wash thoroughly after handling.  
 P270 - Do not eat, drink or smoke when using this product.  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.

**Precautionary Statements - Response:**

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P302 + P352 - IF ON SKIN: Wash with plenty of water.  
 P312 - Call a POISON CENTER/doctor if you feel unwell.  
 P362 + P364 - Take off contaminated clothing. Wash contaminated clothing before reuse.  
 P308 + P311 - If exposed or concerned: Call a POISON CENTER/doctor.  
 P332 + P313 - If skin irritation occurs: Get medical attention/advice.  
 P337 + P313 - If eye irritation persists: Get medical attention/advice.  
 P321 - Specific treatment (see Section 4 of this SDS).  
 P314 - Get medical attention/advice if you feel unwell.

**Precautionary Statements - Storage:**

P405 - Store locked up.

**Precautionary Statements - Disposal:**

P501 - Dispose of contents/container to an approved waste disposal plant.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Content
Diethylmethylbenzenediamine	68479-98-1	1-3%
Diethylene Glycol	111-46-6	1-2%
Ethylene Glycol	107-21-1	1-2%
1,1,1,3,3-pentafluoropropane	460-73-1	8-12%
Polyol		50-70%
Flame Retardant		20-30%
Catalyst		2-3%
Surfactant		0.1-1%

### 4. FIRST AID MEASURES

**General Information:**

Immediately remove any clothing soiled by the product. In case of irregular breathing or respiratory arrest, provide artificial respiration. First Aid responders should pay attention to self-protection and use the recommended protective clothing. If potential for exposure exists refer to Section 8 for specific personal protective equipment.

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**Eyes:**

In case of contact, hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. If symptoms persist, consult a doctor.

**Skin:**

Remove contaminated clothing and shoes. Wash clothing before reuse. Wash affected areas with soap and water. Get medical attention immediately if irritation (redness, rash, blistering) develops and persists.

**Ingestion:**

DO NOT INDUCE VOMITING UNLESS DIRECTED TO DO SO BY MEDICAL PERSONNEL. Never give anything by mouth to an unconscious victim. Get medical attention immediately.

**Inhalation:**

Remove the person from the contaminated area to fresh air. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by POISEN CENTER/doctor.

**Information for Doctor:**

Symptomatic treatment and supportive therapy as indicated.

**Most important symptoms and effects, both acute and delayed:**

No further relevant information available.

**Indication of any immediate medical attention and special treatment needed:**

No further relevant information available.

#### 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media:**

Use fire-fighting measures that suit the environment.  
CO2, dry extinguishing powder, water spray. Fight larger fires with water spray.

**For safety reasons unsuitable extinguishing agents:**

Do not use direct water stream. May spread fire.

**Special hazards arising from the substance or mixture:**

During heating or in case of fire poisonous gases are produced.  
There are no known unusual fire or explosion hazards.

**Advice for firefighters:**

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk without suitable training. Stay up-wind and keep out of low areas where gases (fumes) can accumulate.

**Protective equipment:**

Firefighters should wear NFPA compliant structural firefighting protective equipment, including self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. PVC boots, gloves, safety helmet and protective clothing must be worn. Avoid contact with product. Decontaminate equipment and protective clothing prior to reuse. If material is spilled or released and exposure likely, evacuate area and fight fire from a safe distance or a protected location.

**Additional information:**

Keep people away. Isolate fire and deny unnecessary entry. Use water spray to cool fire exposed containers. Fight fire from protected location at a safe distance. Move container(s) from fire area if this is possible without hazard. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage. Contain fire runoff is possible as it may cause environmental damage.

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#### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:**

No action shall be taken involving any personal risk without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering the area. Spilled material may cause slipping hazard. Refer to Section 7, Handling, for additional precautionary measures. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

**Environmental precautions:**

Do not discharge into drains/surface waters/groundwater.

**Methods and material for containment and cleaning up:**

Ensure adequate ventilation.

Contain spilled material if possible. Absorb with suitable absorbent material: Dirt, Vermiculite, Sand, Clay.

Collect in suitable and properly labeled containers. Wash the spill site with water. See Section 13, Disposal Considerations for additional information.

**Reference to other sections:**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

#### 7. HANDLING AND STORAGE

**Handling:**

**Precautions for safe handling:**

Ensure good ventilation/exhaustion at the workplace.

Avoid contact with eyes and prolonged or repeated contact with skin.

Wash thoroughly after handling.

**Information about protection against explosions and fires:**

Keep ignition sources away – Do not smoke.

Keep respiratory protective device available.

**Conditions for safe storage, including any incompatibilities:**

**Requirements to be met by storerooms and receptacles:**

No special requirements.

**Information about storage in one common storage facility:**

Not required.

**Further information about storage conditions:**

Keep receptacle tightly sealed.

Storage period: 6 months

Storage temperature: 50° to 75°F.

**Specific end use(s):**

See technical data sheet for details

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control Parameters:**

Diethylene glycol (CAS No. 111-46-6)

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WEEL	TWA: 10 mg/m <sup>3</sup>
<b>Ethylene glycol (CAS No. 107-21-1)</b>	
ACGIH	STEL: C 100 mg/m <sup>3</sup>
<b>1,1,1,3,3-Pentafluoropropane (CAS No. 460-73-1)</b>	
ACGIH, OSHA	TWA: 2.5 mg/m <sup>3</sup>

**Additional information:**

The lists that were valid during the creation were used as basis.

**Exposure controls**

**Personal protective equipment:**



**General protective and hygienic measures:**

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes and skin.
- Wash contaminated clothing before reuse.
- Ensure that eyewash stations and safety showers are close to the workstation area.

**Breathing equipment:**

In case of brief exposure at low atmospheric levels, use an approved air-purifying respirator equipped with an organic vapor sorbent and particle filter. In case of intensive or longer exposure, use a positive pressure air-supplying respirator (air line or self-contained breathing apparatus).

**Protection of hands:**

The workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

**Material of gloves:**

Use chemical resistant gloves classified under Standard EN374: Protective gloves against chemicals and microorganisms. Examples of preferred glove barrier materials include: Butyl rubber, Polyethylene, EVAL, Neoprene, Nitrile, Viton. When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher is recommended.

**Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye Protection:**

Tightly sealed chemical goggles consistent with EN 166 or equivalent. Wear a face-shield which allows use of chemical goggles or wear full-face respirator to protect face and eyes when there is any likelihood of splashes.

**Body Protection:**

Personal protective clothing for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Safety glasses with side shields or goggles recommended. If there is a potential for splashing, use full face shield over safety glasses or goggles.

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#### 9. PHYSICAL AND CHEMICAL PROPERTIES

##### Information on basic physical and chemical properties

##### General Information

##### Appearance:

**Form:** Fluid

**Color:** Amber

**Odor:** Characteristic

**Odor Threshold:** Not determined

**pH-value:** Not determined

##### Change in condition:

**Melting point/melting range:** Undetermined

**Boiling point/boiling range:** Undetermined

**Flash Point:** >100 °C (>212 °F)

**Flammability (solid, gaseous):** Not applicable

**Decomposition Temperature:** Not determined

**Auto Ignition:** Product is not self-igniting

**Danger of Explosion:** Product does not present and explosion hazard

##### Explosion Limits:

**Lower:** Not determined

**Upper:** Not determined

**Vapor Pressure:** Not determined

**Density:** 10.42 lb/gal

**Specific Gravity:** 1.25

**Vapor Density:** Heavier than air

**Evaporation Rate:** Slower than ether

**Solubility in / Miscibility with Water:** Not miscible or difficult to mix

**Partition coefficient (n-octanol/water):** Not determined

#### 10. STABILITY AND REACTIVITY

##### Reactivity

##### Chemical Stability:

This product is stable at recommended storage conditions (See Section 7).

##### Thermal Decomposition/Conditions to be Avoided:

No decomposition if used according to specifications.

##### Possibility of Hazardous Reactions:

No dangerous reactions known.

##### Conditions To Avoid:

Avoid moisture to protect product quality.

##### Incompatible Materials:

Avoid contact with oxidizing materials. Avoid contact with strong acids, strong bases. Avoid unintended contact with isocyanates, which can generate heat.

##### Hazardous Decomposition Products:

Combustion products include: CO and CO<sub>2</sub>

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#### 11. TOXICOLOGICAL INFORMATION

**Information on toxicological effects**

**Acute toxicity:**

**Diethylene glycol (CAS No. 111-46-6)**

<i>Oral</i>	<i>LD50 12,565 mg/kg (rat)</i>
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<i>Dermal</i>	<i>LD50 11,890 mg/kg (rabbit)</i>
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<i>Inhalative</i>	<i>LC50/4h 0.49 mg/l (rat)</i>
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**Ethylene glycol (CAS No. 107-21-1)**

<i>Oral</i>	<i>LD50 4,000 mg/kg (rat)</i>
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**Primary Irritant Effect:**

On the skin: Irritant to skin and mucous membranes.

In the eyes: Irritating effect.

**Sensitization:**

No sensitizing effects known.

**Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Toxic

Irritant

#### 12. ECOLOGICAL INFORMATION

**Toxicity**

**Aquatic toxicity:**

**Diethylene glycol (CAS No. 111-46-6)**

<i>LC50</i>	<i>75,200 mg/l (pimephales)</i>
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<i>EC50 (static)</i>	<i>84,000 mg/l (daphnia)</i>
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**Ethylene glycol (CAS No. 107-21-1)**

<i>LC50</i>	<i>14-18 ml/l (oncorhynchus)</i>
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<i>EC50 (static)</i>	<i>46,300 mg/l (daphnia)</i>
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**Persistence and degradability:**

No further relevant information available.

**Behavior in environmental systems**

**Bioaccumulative potential:**

No further relevant information available.

**Mobility in soil:**

No further relevant information available.

**Additional ecological information**

**General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**Results of PBT and vPvB assessment:**



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**PBT:** Not applicable  
**vPvB:** Not applicable  
**Other Adverse Effects:**  
 No further relevant information available.

### 13. DISPOSAL CONSIDERATIONS

**Waste Treatment Methods**  
**Recommendation:**  
 The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of all federal, state and local environmental protections and waste disposal regulations. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**Uncleaned Packagings**  
**Recommendation:**  
 Disposal must be made according to official regulations.

### 14. TRANSPORT INFORMATION

**U.S. DOT Information:**  
 Not regulated

**IMDG Information:**  
 Not regulated

**IATA Information:**  
 Not regulated

### 15. REGULATORY INFORMATION

**U.S. Federal Regulations**  
**SARA 313**  
 Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical Name	CAS Number	SARA 313 – Threshold Values %
Ethylene glycol	107-21-1	1.0

**SARA 311/312 Hazard Categories:**  
**Acute health hazard:** Yes  
**Chronic health hazard:** Yes  
**Fire hazard:** No  
**Sudden release of pressure hazard:** No  
**Reactive hazard:** No

**CWA – Clean Water Act:** This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and CFR 122.42).

**CERCLA:** This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical Name	CAS Number	CERCLA/SARA RQ	Reportable Quantity (RQ)
Ethylene glycol	107-21-1	-	5,000 LB



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#### U.S. State Regulations

**California Proposition 65:** This product contains chemical(s) known to the State of California to cause cancer.

Chemical Name	CAS Number
1,1,1,3,3-pentafluoropropane	460-73-1

#### U.S. State Right-to-Know Regulations:

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Diethylene glycol	-	-	X
1,1,1,3,3-pentafluoropropane	-	X	-

### 16. OTHER INFORMATION

#### NFPA Hazard Codes:

Health Hazards: 1    Flammability: 1    Instability: 1    Physical and Chemical Properties: -

#### HMIS III Rating:

Health Hazards: 1    Flammability: 1    Physical Hazards: 1    Personal Protection: X

#### Department issuing SDS:

Preferred Solutions, Inc. Product Stewardship

#### Date of Preparation/Last Revision:

06/01/2015

#### Abbreviations and Acronyms:

IMDG: International Maritime Code of Dangerous Goods  
 DOT: US Department of Transportation  
 IATA: International Air Transport Association  
 ACGIH: American Conference of Governmental Industrial Hygienists  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service  
 NFPA: National Fire Protection Agency (USA)  
 HMIS: Hazardous Materials Identification System (USA)  
 CSR: Chemical Safety Report  
 SDS: Safety Data Sheet  
 MSDS: Material Safety Data Sheet  
 PBT: Persistent, Bioaccumulative and Toxic Substances  
 STEL: Short-Term Exposure Limit  
 TLV: Threshold Limit Value  
 TWA: Time Weighted average  
 vPvB: Very Persistent and Very Bioaccumulative  
 LC50: Lethal Concentration, 50 percent  
 LD50: Lethal Dose, 50 percent

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