

# SAFETY DATA SHEET

## Staycell® 302 Resin B-Component

Prepared in accordance with the United States Hazard Communication Standard: 29 CFR 1910.1200 (2012) Revision Date: 07/22/2016

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

**Product Name:** Staycell® 302 Resin B-Component

**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

**Classification of the substance or mixture:**



Health Hazard

STOT SE 2 H371 May cause damage to organs.  
STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



Corrosion

Eye Dam. 1 H318 Causes serious eye damage.



Skin Irrit. 2 H315 Causes skin irritation.

**Label elements**

**GHS label elements:** The product is classified and labeled according to the Globally Harmonized System (GHS).

**Hazard pictograms:**



GHS05



GHS08



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**Signal Word:**

Danger

**Hazard Determining Components of Labeling:**

Polyol(s)  
N, N-bis[3-(dimethylamino)propyl]-N',N'-dimethylpropane-1,3-diamine

**Hazard Statements - Health:**

H303 - Maybe harmful if swallowed.  
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
Polyol(s)		30-60%
Polyether Polyol	940912-28-7	7-13%
tris(2-chlorisopropyl)-phosphate	13674-84-5	5-10%
1,1,1,3,3-pentafluorobutane	406-58-6	5-10%
N,N-bis[3-(dimethylamino)propyl]-N',N'-dimethylpropane-1,3-diamine	33329-35-0	1-5%
Tetrabromophthalic Acid diester/diol	77098-07-8	1-5%
Diethylene glycol	111-46-6	1-5%

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Glycerol	56-81-5	1-5%
Triethyl phosphate	78-40-0	1-5%
1,1,1,3,3-Pentafluoropropane	460-73-1	1-5%
N,N,N',N'-tetramethyl-2,2'-oxybis(ethylamine)	3033-62-3	≤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.

**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.  
CO<sub>2</sub>, 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:**

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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.

#### 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.

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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

**Components with occupational exposure limits:**

<b>Polyether polyol (CAS No. 940912-28-7)</b>	
PPM	Ceiling limit value: .3 mg/m <sup>3</sup>
<b>Diethylene glycol (CAS No. 111-46-6)</b>	
WEEL	Long-term value: 10 mg/m <sup>3</sup>
<b>Glycerol (CAS No. 56-81-5)</b>	
PEL	Long-term value: 15*5** mg/m <sup>3</sup> mist; *total dust **respirable fraction
TLV	Long-term value: 10 mg/m <sup>3</sup> TLV withdrawn – insufficient data human occupancy exposure
<b>Triethyl phosphate (CAS No. 78-40-0)</b>	
WEEL	Long-term value: 7.45 mg/m <sup>3</sup>
<b>1,1,1,3,3-Pentafluoropropane (CAS No. 460-73-1)</b>	
TWA	Long-term value: 1,644 mg/m <sup>3</sup> , 300 ppm
<b>N,N,N',N'-tetramethyl-2,2'-oxybis(ethylamine) (CAS No. 3033-62-3)</b>	
REL	Minimize exposure: NIAX Catalyst ESN; Pocket Guide App. C
TLV	Short-term value: 0.98 mg/m <sup>3</sup> , 0.15 ppm ; Long-term value: 0.33 mg/m <sup>3</sup> , 0.05 ppm, skin

**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:**

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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.

## 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:** 9.86 lb/gal

**Specific Gravity:** 1.18

**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**

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**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>

### 11. TOXICOLOGICAL INFORMATION

**Information on toxicological effects**

**Acute toxicity:**

**Polyether polyol (CAS No. 940912-28-7)**

<i>Oral</i>	<i>LD50: 1,370 mg/kg (rat)</i>
<i>Dermal</i>	<i>LD50: 12,800 mg/kg (rabbit)</i>

**N,N-bis[3-(dimethylamino)propyl]-N',N'-dimethylpropane-1,3-diamine (CAS No. 33329-35-0)**

<i>Oral</i>	<i>LD50: 2,445 mg/kg (rat)</i>
<i>Dermal</i>	<i>LD50: 1,150 mg/kg (rabbit)</i>
<i>Inhalative</i>	<i>LC50/4h: 1.9 mg/l (rat)</i>

**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

**Carcinogenic categories**

**IARC (International Agency for Research on Cancer)**

<i>940912-28-7</i>	<i>Polyether polyol</i>
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**NTP (National Toxicology Program)**

<i>940912-28-7</i>	<i>Polyether polyol</i>
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**OSHA-Ca (Occupational Safety & Health Administration)**

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940912-28-7	<i>Polyether polyol</i>
13674-84-5	<i>tris (2-chlorisopropyl)-phosphate</i>

### 12. ECOLOGICAL INFORMATION

**Toxicity**  
**Aquatic toxicity:**  
 No further relevant information available.  
**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:**  
**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:**  
 DOT Non-Bulk: Not regulated  
**IMDG Information:**  
 Not regulated  
**IATA Information:**  
 Not regulated



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#### 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
Polyether Polyol	940912-28-7

##### **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.

**CAA – Clean Air Act:** This product does not contain any substances regulated as pollutants pursuant to the Clean Air Act.

##### U.S. State Regulations

##### **California Proposition 65:**

Chemical(s) known to cause cancer.

Chemical Name	CAS Number
1,1,1,3,3-pentafluoropropane	460-73-1
<i>tris (2-chlorisopropyl)-phosphate</i>	13674-84-5
Tetrabromophthalic Acid diester/diol	77098-07-8
Polyether Polyol	940912-28-7

Chemical(s) known to cause reproductive toxicity for females.

Chemical Name	CAS Number
<i>tris (2-chlorisopropyl)-phosphate</i>	13674-84-5
Polyether Polyol	940912-28-7

Chemical(s) known to cause reproductive toxicity for males.

Chemical Name	CAS Number
<i>tris (2-chlorisopropyl)-phosphate</i>	13674-84-5
Polyether Polyol	940912-28-7

Chemical(s) known to cause developmental toxicity.

Chemical Name	CAS Number
<i>tris (2-chlorisopropyl)-phosphate</i>	13674-84-5
Polyether Polyol	940912-28-7

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

Chemical Name	CAS Number	New Jersey	Massachusetts	Pennsylvania
Tetraethylene glycol	112-60-7	X	-	X
1,1,1,3,3-pentafluoropropane	460-73-1	-	X	-



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### 16. OTHER INFORMATION

**NFPA Hazard Codes:**

Health Hazards: 2      Flammability: 1      Instability: 0      Physical and Chemical Properties: -

**HMIS III Rating:**

Health Hazards: 2      Flammability: 1      Physical Hazards: 0      Personal Protection: X

**Department issuing SDS:**

Preferred Solutions, Inc. Product Stewardship

**Date of Preparation/Last Revision:**

07/22/2016

**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

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

STOT SE 2: Specific target organ toxicity – Single exposure, Hazard Category 2

STOT RE 2: Specific target organ toxicity – Repeated exposure, Hazard Category 2

IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. FURTHER, YOU EXPRESSLY UNDERSTAND AND AGREE THAT THE DESCRIPTIONS, DESIGNS, DATA, AND INFORMATION FURNISHED BY OUR COMPANY HEREUNDER ARE GIVEN GRATIS AND WE ASSUME NO OBLIGATION OR LIABILITY FOR THE DESCRIPTION, DESIGNS, DATA AND INFORMATION GIVEN OR RESULTS OBTAINED, ALL SUCH BEING GIVEN AND ACCEPTED AT YOUR RISK.