

SAFETY DATA SHEET

Staycell® 504 B-Resin

Prepared in accordance with the United States Hazard Communication Standard: 29 CFR 1910.1200

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

Product Name: Staycell® 504 B-Resin

Chemical Name: Polyurethane Resin

Manufacturer: Preferred Solutions, Inc.
5000 Rockside Road, Suite 230
Independence, 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 - Category 2 (Kidney)
Irritation - Category 2A
Skin Irritation - Category 3
Sensitization - Category 3 (Eye)
Respiratory Toxicity – Category 1B

Pictograms:



GHS07



GHS08

Signal Word:

Danger

Hazard Statements - Health:

H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H361 - Suspected of damaging the unborn child.
H373 - May cause damage to organs (Kidney) through prolonged or repeated exposure (oral).

Precautionary Statements - General:

P101 - If medical advice is needed, have product container or label at hand.

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P102 - Keep out of reach of children.

P103 - Read label before use.

Precautionary Statements - Prevention:

P202 - Do not handle until all safety precautions have been read and understood.

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.

P314 - Get medical advice/attention if you feel unwell.

P303 + P361 - IF ON SKIN (or hair): Wash with plenty of soap and water.

P308 + P311 - If exposed or concerned: Call a POISON CENTER or doctor/physician.

P332 + P313 - If skin irritation occurs: Get medical attention/advice.

P337 + P311 - If eye irritation persists: Call a POISON CENTER or doctor/physician.

P362 + P364 - Take off contaminated clothing. Wash contaminated clothing before reuse.

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

Substance/Mixture: Mixture

Hazardous Components

Chemical Name	CAS Number	% Content
Trans-1-Chloro-3,3,3-trifluoropropene (CF ₃ HC=CHCl or HFO-1233zd)	102687-65-0	5-15%
Tertiary amine catalysts	Proprietary	2-5%
Trans-1,2-Dichloroethylene	156-60-5	≤3%
Organometallic catalyst	Proprietary	<0.5%

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.



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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 POISON CENTER/doctor.

Information for Doctor:

Symptomatic treatment and supportive therapy as indicated.

Most important symptoms and effects, both acute and delayed:

May cause skin or eye irritation upon contact. Avoid breathing vapors. The dense vapors can displace and reduce breathing air in confined or unventilated spaces causing asphyxiation. Overexposure may cause tremors, confusion, irritation and may result in cardiac sensitization.

Indication of any immediate medical attention and special treatment needed:

N/A

Skin Contact:

Wash with soap and water at first opportunity

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Water, dry chemicals, CO₂

For safety reasons unsuitable extinguishing agents:

None

Special hazards arising from the substance or mixture:

During heating or in case of fire poisonous gases are produced.
Overheated containers may rupture due to pressure produced.

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 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 if 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



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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°F to 85°F.

Specific end use(s):

See technical data sheet for details

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters:

Trans-1-Chloro-3,3,3-trifluoropropene¹ (CF₃HC=CHCl or HFO-1233zd) (CAS No. 102687-65-0)	
OSHA	TWA: 300ppm recommended
Tertiary Amine Catalysts¹ (CAS No. Proprietary)	
	None established
Organometallic Catalyst¹ (CAS No. Proprietary)	

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	<i>None established</i>
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¹Not listed as a carcinogen (NTA, IARC, OSHA)

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 (airline 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

Appearance:

Form: Fluid

Color: Amber

Odor: Ester

Odor Threshold: Not determined

pH-value: Not determined

Change in condition:

Freezing point: <32°F

Boiling point/boiling range: Not determined

Flash Point: >100 °C (>200°F)

Flammability (solid, gaseous): Not determined

Decomposition Temperature: Not determined

Explosion Limits:

Lower: Not determined

Upper: Not determined

Vapor Pressure: Not determined

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.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:	May cause skin irritation
Chronic toxicity:	Not available
Likely routes of exposure:	Skin
Symptoms related to physical, chemical and toxicological characteristics:	May cause skin irritation
Delayed and immediate effects and chronic effects from short and long-term exposure:	May cause skin irritation. Avoid contact with eyes
Numerical toxicity measures:	Not available

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12. ECOLOGICAL INFORMATION

Ecotoxicity:	<i>Not a marine pollutant</i>
Persistence and degradability:	<i>No known significant effects</i>
Bioaccumulative potential	<i>Does not bioaccumulate</i>

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

Inventory Status:	All components TSCA listed
US Regulations:	No ingredients listed
US Superfund Amendments and Reauthorization Act (SARA) Title III Section 313 information:	No ingredients listed

16. OTHER INFORMATION

NFPA Hazard Codes:

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

HMIS IV 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:

4/16/25

Abbreviations and Acronyms:

IMDG: International Maritime Code of Dangerous Goods



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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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