

SAFETY DATA SHEET

Staycell® 504 B-RESIN

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

Revision Date: 08/03/2021

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.
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 2A
Acute Toxicity, Oral – Category 5

Pictograms:



GHS07

Signal Word:

Warning

Hazard Statements - Health:

H319 - Causes serious eye irritation.
H315 - Causes skin 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.
P102 - Keep out of reach of children.
P103 - Read label before use.

Precautionary Statements - Prevention:

P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P260 - Do not breathe dust/fume/gas/mist/spray.

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P201 - Obtain special instructions before use.
 P202 - Do not handle until all safety precautions have been read and understood.
 P264 - Wash thoroughly after handling.

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

Chemical Name	CAS Number	Content
Trans-1-Chloro-3,3,3-trifluoropropene (CF ₃ HC=CHCl or HFO-1233zd)	102687-65-0	12-15%
Tertiary amine catalysts	Proprietary	2-5%
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.

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.

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Most important symptoms and effects, both acute and delayed:

Symptoms: The most important known symptoms and effects are described in the labelling (see Section 2) and/or in Section 11.

Information on: diethylene glycol

Symptoms: Overexposure may cause vomiting, coma, abdominal cramps, lethargy, nausea, diarrhea, headache

Information on: 2-dimethylaminoethanol

Symptoms: Overexposure may cause shortness of breath, restlessness, coughing, headache

Indication of any immediate medical attention and special treatment needed:

Note to physician: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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.

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.

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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 75°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)	
	None established

Personal protective equipment:



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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.

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:

Freezing point: <32°F

Boiling point/boiling range: 66°F

Flash Point: >100 °C (>200°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:

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Lower: Not determined

Upper: Not determined

Vapor Pressure: Not determined

Relative Density: 1.20

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 CO₂

11. TOXICOLOGICAL INFORMATION

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

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:



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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:

Not regulated

IMDG Information:

Not regulated

IATA Information:

Not regulated

15. REGULATORY INFORMATION

U.S. Federal Regulations

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).

16. OTHER INFORMATION

Department issuing SDS:

Preferred Solutions, Inc. Product Stewardship

Date of Preparation/Last Revision:

08/03/2021

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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