



HIS GLASSWORKS

## Safety Data Sheet

Product Name: Flex-Tec Part A

SDS Date: 02/15/2023

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Flex-Tec Part A

**Manufacturer:**  
His Glassworks, Inc.  
2000 Riverside Drive  
Suite 19  
Asheville NC 28804

**24 HR EMERGENCY TELEPHONE NUMBERS:**  
Velocity  
Toll Free: 800-255-3924  
International: +813-248-0585

**Phone number:**  
800-914-7463 or 828-254-2559  
FAX: 828-254-2581

### 2. HAZARDS IDENTIFICATION

#### GHS CLASSIFICATIONS

Health:

Acute Toxicity (Inhalation) Category 2  
Skin Irritation, Category 2  
Eye Irritation, Category 2A  
Respiratory Sensitization, Category 1  
Skin Sensitization, Category 1  
Target Organ Toxicity (Single Exposure) Category 3

#### GHS LABEL



His Glassworks, Inc. - Flex-Tec Part A SDS Sheets  
Revision Date 02/15/2023

SIGNAL WORD: DANGER

Hazard Statements:

- H330: Fatal if inhaled
- H315: Causes skin irritation
- H319: Causes serious eye irritation
- H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled
- H317: May cause an allergic skin reaction
- H335: May cause respiratory irritation

Precautionary Statements:

Prevention:

- P260: Do not breathe dusty/fumes/gas/mist/vapor/spray
- P271: Use only outdoors or in a well ventilated area.
- P284: In case of inadequate ventilation, wear respiratory protection
- P264: Wash thoroughly after handling
- P272: Contaminated work clothing should not be allowed out of the workplace
- P280 Wear protective gloves/protective clothing/ eye protection/face protection

Response:

- P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P310: Immediately call a POISON CENTER/doctor/physician
- P302+P352: IF ON SKIN: Wash with plenty of soap and water
- P333+P313: If skin irritation or rash occurs. Get medical advice/attention
- P362+P364: Take off contaminated clothing and wash it before reuse
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
- P337+P313: If eye irritation persists, get medical attention

Storage:

- P403+P233: Store in a well ventilated area. Keep container tightly closed
- P405: Store locked up

Disposal:

- P501: Dispose of contents in accordance with local/regional/national regulations

### 3. COMPOSITION AND INFORMATION ON INGREDIENTS

Component	CAS#	Concentration
Dicyclohexylmethane-4,4'-diisocyanate	5124-30-1	60–100%
Polyurethane prepolymer	Proprietary	10-30
Hexamethylene-1,6-diisocyanate	822-06-0	<0.1

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## 4. FIRST AID MEASURES

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Inhalation:	Remove to fresh air. Seek medical attention if breathing becomes difficult or if respiratory irritation develops.
Skin Contact:	Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if irritation or rash develops. Wash clothing before re-use.
Eye Contact:	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention if irritation persists.
Ingestion:	If swallowed, call a physician immediately. Do not induce vomiting unless directed to do so by medical personnel. Provided the patient is conscious, wash out mouth with water. Never give anything by mouth to an unconscious person.

### Notes to Physician

Treatment:	Symptomatic and supportive therapy as needed. Following severe exposure medical follow-up should be monitored for at least 48 hours.
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## 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Water spray, carbon dioxide chemical or foam.
Hazardous combustion products:	Carbon monoxide, carbon dioxide, nitrogen oxides, and tetrahydrofuran.
Fire fighting procedures	Cool fire exposed containers with water spray. Remove containers from fire area if possible. Do not release runoff from fire control methods to sewers or waterways.
Special protective equipment for fire-fighters:	Firefighters should wear positive pressure self-contained breathing apparatus (SCBA) and consider use of unmanned hose holders or monitor nozzles for large fires.

## 6. ACCIDENTAL RELEASE MEASURES

Small spill	Evacuate the area. Clean-up should only be performed by trained personnel. People dealing with a major spill should wear full protective clothing including appropriate respiratory protection. Prevent product spill from entering sewers or waterways. Neutralize small spills with a decontaminant.
Large Spill	Contain and absorb large spills onto an inert, non-flammable absorbent carrier (such as earth or sand). Shovel into open-top drums or plastic bags for further decontamination if necessary. Wash the spill area with a liquid decontaminant. Remove and properly dispose of residues. Notify applicable government authorities if release is reportable (see CERCLA).
Environmental precautions:	Do not discharge into drains or rivers
General procedures	Refer to SDS for personal protection details
Release notes	Composition and extent of any spill should be evaluated against local regulations and reported to the proper agencies, if necessary.

## 7. HANDLING AND STORAGE

<b>General procedure:</b>	Avoid contact with eyes, skin, and clothing. Use only with adequate ventilation. Avoid breathing vapor over open containers. Avoid open container exposure to damp air. Avoid breathing aerosols, mists, and vapors
<b>Handling:</b>	Use appropriate personal protective equipment as specified in Section 8. Handle in a well ventilated area. Handle and use in a manner consistent with good industrial/ manufacturing techniques and practices.
<b>Storage:</b>	Store in a dry and well ventilated place, away from excessive heat in original or similar container. Avoid unnecessary contact. Protect from freezing. Containers should be tightly sealed to prevent contamination with foreign materials.
<b>Storage Temperature:</b>	65–80°F (18–27°C)
<b>Shelf Life</b>	6 months from date of shipment under recommended storage conditions.

## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

### EXPOSURE GUIDELINES

Chemical Name	Exposure Limits	Type	ppm	mg/m3
Dicyclohexylmethane-4,4'-diisocyanate	OSHA PEL	C	0.01	11
	ACGIH TLV	TWA	0.005	
	NIOSH REL	C	0.01	0.11
Polyurethane Prepolymer				
Hexamethylene-1,6-diisocyanate	OSHA PEL			
	ACGIH TLV	TWA	0.005	
	NIOSH REL	TWA	0.005	0.035

### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Safety goggles or glasses are recommended. Plastic face shields should be used for complete face protection to protect against possible splashing or spraying of material. ANSI Z87.1 or approved equivalent.

**SKIN:** Chemical resistant gloves and chemical goggles, face-shield and synthetic apron or coveralls should be used to prevent contact with eyes, skin, or clothing. Wear nitrile or neoprene gloves. Chemical resistant gloves lined with polyethylene offer maximum protection.

**RESPIRATORY:** Exhaust ventilation recommended. An organic vapor cartridge or fresh air supplied respirator (NIOSH approved) may be necessary for certain applications. Consider the type of application, environmental concentrations, and other materials being used concurrently when determining respirator use and selection. Observe OSHA regulations for respirator use (29CFR 1910.134)

**PROTECTIVE CLOTHING:** Protective clothing should be selected and used in accordance with "Guidelines for the Selection of Chemical Protective Clothing" published by ACGIH.

**WORK HYGIENIC PRACTICES:** Contaminated clothing should be changed and washed before re-use. Eating, drinking, and smoking in immediate work area should be prohibited. Wash hands before eating.

**OTHER USE PRECAUTIONS:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Training is important. Follow all label precautions.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Color:	Colorless
Odor:	Slight
pH:	not applicable
Flashpoint and Method	160°C (320°F) Pinsky-Martens CC
Boiling point/range:	Not established
Vapor pressure:	Not established
Relative vapor density:	Not established
Specific gravity	1.09 (water=1) at 25°C (77°F)
Water solubility:	reacts with water
Viscosity, dynamic:	120 CPS at 25°C (77°F)

## 10. STABILITY AND REACTIVITY

Stability	This product is stable under normal ambient conditions of temperature and pressure.
Polymerization	Product will not undergo polymerization
Conditions to avoid	High temperatures, moisture, and freezing conditions
Possibility of hazardous reactions	Reacts violently with amines (exothermic), Exothermic reactions with acids, alkalis, powerful oxidants and alcohols. Reacts with water, whereby carbon dioxide is produced; pressure may build up in closed containers (dangers of bursting)
Hazardous decomposition products:	Carbon monoxide, carbon dioxide, nitrogen dioxides, hydrogen cyanide and isocyanate containing vapors.
Incompatible materials	Water, alcohols, amines, acids, bases, and strong oxidizing agents.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

Chemical Name	ORAL LD <sub>50</sub> (rat)	DERMAL LD <sub>50</sub> (rabbit)	INHALATION LC <sub>50</sub> (rat)
Dicyclohexylmethane-4,4'-diisocyanate	18200 mg/kg Rat	>7000 mg/kg Rat	0.33 mg/l Rat
Polyurethane prepolymer	no data	no data	no data
Hexamethylene-1,6-diisocyanate	746 to 959 mg/kg Rat	>7000 mg/kg Rat	0.124 mg/l Rat

## 12. ECOLOGICAL INFORMATION

Ecotoxicological Information      No specific ecological data are available for this product.

Bioaccumulation                      No data available

Distribution                            No data available

## 13. DISPOSAL CONSIDERATIONS

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 environmental protections and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers.

## 14. TRANSPORT INFORMATION

DOT Classification:                    Not Regulated

**IATA/ICAO Classification:** Not Regulated

**IMO/IMDG Classification:** Not Regulated

## 15. REGULATORY INFORMATION

Sara Title III

311/312 Hazard Categories Refer to Section 2 for hazard classification

313 Reportable Ingredients This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40CFR Part 372

Chemical Name	Wt%	CAS	Comments
Dicyclohexylmethane-4,4'-diisocyanate	60-100	5124-30-1	Diisocyanate Compounds
Hexamethylene-1,6-diisocyanate	<0.1		

California Proposition 65 This product does not contain any chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm.

## 16. OTHER INFORMATION

	HMIS III	NFPA
Health:	3	3
Flammability	1	1
Reactivity:	0	0
Personal Protection	0	0