

Revision Date 25-July-2025  
Version 1.0

## 1. IDENTIFICATION

### Product identifier

**Product Name** UltraSpartic 85-Slow Low Odor Part B

### Other means of identification

**Part Number(s)** 233217, 233227, 233233

### Recommended use of the chemical and restrictions on use

**Recommended use** Hardener for coating materials; isocyanate used in the manufacturing of polyurethanes; for professional use only

**Uses advised against** Not intended for consumer use

### Details of the supplier of the safety data sheet

#### **Manufacturer Address**

Ultra Durable Technologies  
355 6<sup>th</sup> Ave. North  
Waite Park, MN 56387  
320-258-2266  
Ultradrt.com

### Emergency telephone number

**Emergency Telephone** Chemtrec 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

### Classification

This chemical is considered hazardous by the 2024 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Respiratory sensitization	Category 1
Skin sensitization	Category 1
Acute Inhalation Toxicity	Category 4



**Signal Word** Danger

### **Hazard statements**

Harmful if inhaled.  
May cause an allergic skin reaction.  
May cause an allergy or asthma symptoms or breathing difficulties if inhaled.

### **Precautionary Statements - Prevention:**

Avoid breathing dust, fumes, gas, or vapor.  
Contaminated work clothing must not be allowed out of the workplace.  
Wear protective gloves, protective clothing, eye protection, and face protection.  
Use only outdoors or in a well-ventilated area.

In case of inadequate ventilation wear respiratory protection.

**Precautionary Statements - Response:**

IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention.

Remove contaminated clothing. Wash before reuse.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Get medical help immediately.

IN CASE OF FIRE: Use media other than water to extinguish.

**Precautionary Statements - Storage:**

Store in a well-ventilated place. Keep cool.

**Precautionary Statements - Disposal:**

Dispose of contents/container to an appropriate waste disposal plant.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight %
Hexamethylene diisocyanate homopolymer	28182-81-2	45 - 70
Dimethyl glutarate	1119-40-0	20 - 24
Dimethyl adipate	627-93-0	6 - 10
Hexane, 1,6-diisocyanate	822-06-0	< 1

**Trade Secret Statement (OSHA 1910.1200(i))** Specific chemical identities and concentrations for one or more listed chemicals are being withheld as trade secrets under the US regulation 29 CFR 1910.1200(i).

### 4. FIRST AID MEASURES

**Description of first aid measures****Eye Contact**

Rinse eyes thoroughly with running water for at least 15 minutes, lifting upper and lower eyelids as able. Remove contact lenses if easy to do and continue rinsing. Seek medical attention if irritation develops.

**Skin Contact**

Wash skin thoroughly with soap and water after handling. Remove contaminated clothing and wash thoroughly before reuse or discard. Seek medical attention if irritation develops.

**Inhalation**

Remove victim to fresh air and keep comfortable for breathing. If necessary, use artificial respiration to support vital functions. Seek medical attention immediately if experiencing respiratory symptoms.

**Ingestion**

If product is swallowed, call physician or poison control center for most current information. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluent (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or SDS with the victim to the health professional.

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

Pre-existing skin or respiratory conditions may be aggravated. May cause allergic skin or respiratory symptoms.

**Immediate medical attention and special treatment, if necessary**

If inhaled and victim is having difficulty breathing, assist in artificial life support (CPR) until emergency medical personnel are available.

If in direct contact with skin, immediately flush with water.

**Special Instructions for Physicians**

Treat symptomatically

### 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media**

Dry powder. Foam. Carbon dioxide.

**Unsuitable extinguishing media**

Water

**Specific hazards arising from the chemical**

Fire hazard, combustible liquid.

**Special equipment and precautions for fire-fighters**

Evacuate area. Eliminate all ignition sources if safe to do so. Exercise caution when fighting any chemical fire. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Keep containers cool by spraying with water if exposed to fire. Dispose of fire debris and contaminated extinguishing waste in accordance with official regulations.

## 6. ACCIDENTAL RELEASE MEASURES

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

Ensure adequate ventilation, especially in confined areas.

No open flames, no sparks, no smoking.

Evacuate area. Only qualified personnel equipped with suitable protective equipment may intervene.

Avoid breathing fumes, gas, mist, or spray.

**Environmental precautions**

Avoid release to the environment. Do not allow product to enter drains, sewers, public water, surface water, or groundwater. If contact is made, notify authorities.

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

Use personal protective equipment as required. Stop flow of material if able to do so safely. Contain discharged material. Absorb spill using absorbent, non-combustible material such as earth, sand, or vermiculite. Take up mechanically to an appropriate disposal container. Dispose of in accordance with local, state, and federal regulations. Clean affected areas with an appropriate detergent mixture (90% water, 8% concentrated ammonia, and 2% detergent). Large spills should be pumped into an open container for disposal. If control of isocyanate vapor is required, blanket with protein foam or other suitable foam. Residues may be scrubbed up with detergent mixture. Let stand 10 minutes and remove.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

Wear appropriate personal protective equipment – gloves, safety glasses, appropriate clothing. Avoid contact with skin and eyes and wash thoroughly after use. Practice good industrial hygiene when using product.

Ensure good ventilation of the workstation. Avoid breathing gas, fumes, mist, and vapors.

Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources

**Conditions for safe storage, including any incompatibilities****Storage conditions**

Store in a well-ventilated, cool, dry place away from sunlight. Store locked up. Keep container tightly closed when not in use.

**Incompatible materials**

Water. Moisture.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls**

The use of local exhaust ventilation is recommended. Eyewash stations, chemical showers recommended.

**Exposure Guidelines**

Chemical Name	ACGIH BEI (BLV)	ACGIH OEL	OSHA TWA
Hexamethylene diisocyanate homopolymer	Not established	Not established	Not established
Dimethyl glutarate	Not established	Not established	10 mg/m <sup>3</sup>
Dimethyl adipate	Not established	Not established	10 mg/m <sup>3</sup>
Hexane, 1,6-diisocyanate	15 µg/g	0.005 ppm	Not established

**Individual protection measures, such as personal protective equipment****Eye/Face Protection**

Protective Eyewear (chemical goggles). Face shield if splash hazard exists.

**Skin and Body Protection**

Gloves. Protective clothing.

**Respiratory Protection**

If adequate ventilation is not available, wear appropriate respirator for specific circumstances and with exposure guidelines in mind.

**General Hygiene Considerations**

Handle in accordance with good industrial hygiene and safety practices.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state	Liquid
Color	Clear, Colorless
Odor	Slight
Melting point	No information
Boiling point	No information
Flammability	Not applicable
Upper flammability limit	No information
Lower flammability limit	No information
Flash point	>93.3°C/> 200°F
Autoignition Temperature	No information
Decomposition temperature	No information
pH	No information
Dynamic Viscosity	80 cP
Kinematic Viscosity	75.867 mm <sup>2</sup> /s
Solubility	No information
Partition coefficient n-octanol/water (Log Pow)	No information
Vapor pressure	No information
Density	9.4 lbs/gal
Relative Density	1.05

**10. STABILITY AND REACTIVITY****Reactivity**

This product has oxidizing properties. Not fire-propagating.

**Chemical stability**

Stable under normal conditions.

**Hazardous reactions**

Reacts with alcohols, amines, bases, protic solvents, strong acids, strong oxidizers, and substances which contain active hydrogen.

Reacts with water, forming carbon dioxide. Formation of gaseous decomposition products builds pressure in tightly closed containers.

**Conditions to avoid**

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

Avoid Moisture.

**Incompatible materials**

Water, alcohols, amines.

**Hazardous decomposition products**

Thermal decomposition products include toxic gases and oxides of carbon and possible harmful vapors.

**11. TOXICOLOGICAL INFORMATION****Information on Likely Routes of Exposure****Inhalation**

Inhalation of gas, fumes, mists, or vapors

**Eye Contact**

Liquid material splash or gas, mist, fumes, or vapor

**Skin contact**

Liquid material splash

**Ingestion**

Liquid material

**Numerical values of Toxicity – Component Information**

Chemical Name	Oral LD <sub>50</sub>	Dermal LD <sub>50</sub>	Inhalation LC <sub>50</sub>
Hexamethylene diisocyanate homopolymer	--	>2,000 mg/kg (Rat)	18.5 mg/L (Rat, 1h exposure)
Dimethyl glutarate	> 2,000 mg/kg (Rat)	> 2,000 mg/kg (Rat)	> 11 mg/L (Rat, 4h exposure)
Dimethyl adipate	> 2,000 mg/kg (Rat)	> 2,000 mg/kg (Rat)	> 11 mg/L (Rat, 4h exposure)
Hexane, 1,6-diisocyanato-	738 mg/kg (Rat)	>7,000 mg/kg (Rat)	0.06 mg/L (Rat, 4h exposure)

**Skin Corrosion/Irritation**

May cause an allergic skin reaction.

**Serious Eye Damage/Irritation**

Not classified

**Respiratory or Skin Sensitization**

May cause an allergic skin reaction; may cause allergy or asthma symptoms

**Germ Cell Mutagenicity**

Not classified

**Carcinogenicity**

Not classified

**Reproductive Toxicity**

Not classified

**STOT – Single Exposure**

Not classified

**STOT – Repeated Exposure**

Not classified

**Aspiration Hazard**

Not classified

**Numerical Values of Toxicity – Product Information**

The following data has been calculated using Chapter 3 of the GHS document.

Chemical Name	Oral LD <sub>50</sub>	Dermal LD <sub>50</sub>	Inhalation LC <sub>50</sub>
UltraSpartic 85-Slow Low Odor Part B	2,006 mg/kg	2,404 mg/kg	4.89 mg/L (dust/mist)

**Acute Toxicity (oral)**

Not classified

**Acute Toxicity (dermal)**

Not classified

**Acute Toxicity (inhalation)**

May cause breathing difficulty

**Interactive effects**

Pre-existing skin conditions may be aggravated. Repeated exposure could further aggravate conditions, leading to sensitivity and allergic skin reaction.

Pre-existing respiratory conditions (asthma) may be aggravated. Repeated exposure could further aggravate conditions, leading to sensitivity.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

This product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Hexamethylene diisocyanate homopolymer	--	--	--
Dimethyl glutarate	73 mg/L (Pseudokirchnerella subcapitata, 72h)	24 mg/L (Pimephales promelas, 96h)	--
Dimethyl adipate	73 mg/L (Pseudokirchnerella subcapitata, 72h)	24 mg/L (Pimephales promelas, 96h)	--
Hexane, 1,6-diisocyanato-	--	26.1 mg/L (Brachydanio rerio, 96h, Static)	--

Chemical Name	Algae/aquatic plants	Fish	Crustacea
UltraSpartic 85-Slow Low Odor Part B	--	--	--

**Persistence and degradability**

No information available

**Bioaccumulation potential**

Chemical Name	Partition Coefficient n-octanol/water (Log P <sub>ow</sub> )
Hexamethylene diisocyanate isocyanurate-type oligomers	7.8
Dimethyl glutarate	--
Dimethyl adipate	--
1,6-hexamethylene diisocyanate	5861

**Mobility in soil**

No information available

**Other adverse effects****Elimination information**

1% BOD of the ThOD (28 d) (OECD 301D; EEC 92/69, C.4-E)

**Water hydrolysis**

Will hydrolyze rapidly in contact with water

**13. DISPOSAL CONSIDERATIONS****Waste Treatment Methods****Disposal of Wastes**

Disposal should be in accordance with applicable regional, national, and local laws and regulations. Do not discharge product into sewer system.

**Contaminated Packaging**

Do not reuse container

**14. TRANSPORT INFORMATION**

UN Number	Not applicable
UN Proper Shipping Name	Not applicable
Transport Hazard Class(es)	
DOT	Not applicable
IMDG	Not applicable
IATA	Not applicable
Packing group	
DOT	Not applicable
IMDG	Not applicable
IATA	Not applicable
Environmental hazards	None
Special Instructions for User	None

**NOTE** Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100-177, IMDG, IATA, EC, Canadian TDG, and United nations TDS information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

**15. REGULATORY INFORMATION****Chemical Inventories****TSCA**

All components of this product are listed on the TSCA Inventory or are exempted from listing.

**US Federal Regulations****SARA 313**

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

**SARA 311/312 Hazard Categories**

Acute Health Hazard	Yes - Inhalation
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

<b>Carcinogenicity</b>	No
<b>Respiratory or Skin Sensitization</b>	Yes
<b>Germ Cell Mutagenicity</b>	No
<b>Serious Eye Damage/Irritation</b>	No

**US State Regulations**

California Proposition 65 – This product does not contain substances believed by the State of California to cause cancer, developmental, and/or reproductive harm.

State Right to Know – Massachusetts, New Jersey, Pennsylvania

**NFPA Hazard codes**

<b>Health</b>	<b>1</b>
<b>Fire</b>	<b>1</b>
<b>Reactivity</b>	<b>1</b>

**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

Preparation Date	6-June-2025
Revision Date	25-July-2025
Revision Note	Updated Flashpoint.

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Shipping information may vary based upon container size and shipping destination. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage, or release to the environment. The manufacturer assumes no responsibility for injury to the recipient or third persons, or for any damages to any property resulting from misuse of the product.

End of Safety Data Sheet