


# PolyStar WT 85™

# High-Performance Industrial Polyaspartic Coating Part A

## SAFETY DATA SHEET

Section 1. Identification		
Product identifier	PolyStar WT 85 - Part A	
Other means of identification	PolyStar WT 85	
Recommended use and restrictions on use	Floor coating	
Supplier informations	2271 Cornell Ave, Montgomery, IL 60538, United States info@specialtyproductsdevelopmentgroup.com	
Emergency telephone number/restriction on use	Canada – CANUTEC 24-hour number 613-996-6666	
Section 2. Hazard identification		
Classification of hazardous product (name of the category or subcategory of the hazard class)		
<b>Acute toxicity - Inhalation (Dusts/Mists) - Category 4</b> <b>Serious eye damage/eye irritation - Category 2</b> <b>Skin sensitization - Category 1</b> <b>Carcinogenicity - Category 1B</b> <b>Aspiration toxicity - Category 1</b>		
Information elements (symbols, signal words, hazard statements and precautionary statements of the category/subcategory)		
 <p><b>Warning</b>  <b>Hazardous Statements:</b> Harmful if inhaled. Causes serious eye irritation. May cause an allergic skin reaction. May cause cancer. May be fatal if swallowed and enters airways.  <b>Precautionary Statements:</b>  <b>Prevention</b> - Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Wash face, hands and any exposed skin thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.  <b>Response</b> - If exposed or concerned: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention IF ON SKIN: Wash with plenty of water and soap Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Do NOT induce vomiting.  <b>Storage</b> - Store locked up  <b>Disposal</b> - Dispose of contents and container at an approved waste disposal facility.  <b>Other hazards</b> - Harmful to aquatic life with long lasting effects</p>		
Section 3. Composition/information on ingredients		
Chemical name (common name/synonyms)	CAS number or other	Concentration (%)
1,1'-Methylenebis[(3-methylcyclohexyl-4)-2-amino-butanedioic acid], tetraethyl ester	136210-32-7	25-37
Tetraethyl N,N'-(methylenedicyclohexane-4,1-diyl)bis-dl-aspartate; (Aspartic Acid Ester)	136210-30-5	25-35
Propylene carbonate	108-32-7	5-10
Light aromatic petroleum naphtha	64742-95-6	5-10
1,2,4 Trimethylbenzene	95-63-6	3-6
Xylene	1330-20-7	0-1
Cumene	98-82-8	0-1

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\*\*If the Chemical Name/CAS No is marked as «proprietary» and/or the Weight-% is given as a range, the exact chemical identity and/or composition percentage has been withheld as a trade secret.\*\*

### Section 4. First-aid measures

Inhalation	Move the person to fresh air and keep them in a comfortable position to aid breathing.
Ingestion	Immediately contact a poison control center or doctor/physician. Do NOT induce vomiting.
Skin contact	Wash thoroughly with plenty of soap and water. Clean contaminated clothing before reuse. If skin irritation or a rash develops, seek medical advice/attention.
Eye contact	Rinse carefully with water for several minutes. If contact lenses are present and easy to remove, take them out. Continue rinsing. If eye irritation continues, seek medical advice/attention.
Symptoms	May be harmful if it comes into contact with skin. Causes mild skin irritation. Harmful if inhaled. Causes serious eye irritation. May trigger an allergic skin reaction. May cause cancer. May be fatal if swallowed and enters airways.
Indication of immediate medical attention/ special treatment	In all cases, call a doctor. Also consider the other instructions of this section document.

**Additional Notes to Physician - Treat symptomatically.**

### Section 5. Fire-fighting measures

#### Suitable /Unsuitable Extinguishing Media

Suitable Extinguishing Agents:  
If a fire occurs, use water fog, foam, dry chemical powder, or carbon dioxide (CO<sub>2</sub>).  
Unsuitable Extinguishing Agents:  
Avoid using a water jet as it may exacerbate the spread of flames.

#### Specific Hazards Arising from the Chemical

In the event of a fire, nitrous gases, fumes/smoke, isocyanates, and vapors may be produced. During combustion, hazardous products may form, including acidic hydrogen chloride and hydrogen fluoride, carbon oxides, hydrocarbons, nitrogen oxides, and smoke.

#### Protective equipment and precautions for firefighters

In the event of a fire, always wear a self-contained breathing apparatus with pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

### Section 6. Accidental release measures

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

As a general precaution, avoid breathing gas, vapors, or dust. Prevent contact with eyes, skin, or clothing. Use appropriate personal protective equipment. In an emergency, evacuate all non-essential personnel.

#### Environmental precautions

As an environmental precaution, ensure spills are contained and do not reach sewers, public waters, or soil. Refer to Section 12 for more Ecological Information.

#### Methods and material for containment and cleaning up

Containment Methods: If safe, prevent further leakage or spillage.  
Clean-Up Methods: For containment, ensure sufficient ventilation and use inert liquid binding material to absorb spills. Dispose of waste safely.

### Section 7. Handling and storage

#### Handling Precautions

Seek specific instructions before use. Ensure all safety precautions have been read and understood prior to handling. Wear necessary personal protective equipment. Avoid inhaling dust, fumes, gas, mist, vapors, or spray. Operate only outdoors or in a well-ventilated area. Wash face, hands, and any exposed skin thoroughly after handling. Do not allow contaminated work clothing to leave the workplace.

#### Storage Requirements

Containers should be kept tightly closed and stored in a dry, cool, and well-ventilated location. It's important to avoid exposure to water, amines, and substances that react with polyureas, as they can be incompatible. Taking these storage precautions helps maintain the integrity and effectiveness of the stored materials while minimizing the risk of reactions or contamination.

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### Section 8. Exposure controls/Personal protection

#### Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
1,2,4 Trimethylbenzene 95-63-6	TWA: 10 ppm	-	TWA: 25 ppm TWA: 125 mg/m3
Cumene 98-82-8	TWA: 5 ppm	TWA: 50 ppm TWA: 245 mg/m3 (vacated) TWA: 50 ppm (vacated) TWA: 245 mg/m3 (vacated) S* S*	IDLH: 900 ppm TWA: 50 ppm TWA: 245 mg/m3
Xylene 1330-20-7	TWA: 20 ppm	TWA: 100 ppm TWA: 435 mg/m3 (vacated) TWA: 100 ppm (vacated) TWA: 435 mg/m3 (vacated) STEL: 150 ppm (vacated) STEL: 655 mg/m3	-

#### Engineering Controls

Local exhaust ventilation is required. Make-up air should be provided to compensate for air removed by the exhaust system. Ensure adequate ventilation to keep vapors below permissible exposure limits. Emergency eye wash stations and safety showers should be readily accessible near any potential exposure areas. Comply with all relevant national and local regulations.

#### Personal Protective Equipment (PPE)

**Respiratory Protection:** In case of inadequate ventilation, wear respiratory protection. For specific requirements, refer to 29 CFR 1910.134 regarding respiratory protection standards.

**Eye/Face Protection:** Wear tightly sealed goggles or safety glasses with side shields that are resistant to chemicals. Consult 29 CFR 1910.133 for regulations regarding eye and face protection.

**Skin Protection:** Utilize chemical-resistant protective gloves and wear impervious clothing as needed to avoid contact with the product. Consult 29 CFR 1910.138 for guidance on suitable skin and body protection.

#### Hygiene Measures

Refrain from eating, drinking, or smoking while handling the material. Take precautions to avoid skin or eye contact. If clothing becomes contaminated, do not remove it from the workplace. Cleanse your hands and any exposed skin thoroughly after completing tasks and before taking breaks.

### Section 9. Physical and chemical properties

Physical state	Liquid	Vapor Density	No data available
Appearance	Clear liquid	Relative Density	1.05-1.10
Color	Colorless	Water Solubility	Insoluble in water
pH	No data available	Solubility in other solvents	Not determined
Melting point / freezing point	No data available	Partition Coefficient	Not determined
Initial boiling point and boiling range	140 °C / 284 °F	Autoignition temperature	No data available
Flash point	106 °C / 222.8 °F	Decomposition temperature	Not determined
Evaporation Rate	Not determined	Kinematic viscosity	Not determined
Flammability (Solid, Gas)	Not determined	Dynamic Viscosity	Not determined
Flammability Limit in Air	No data available	Explosive Properties	Not determined
		Oxidizing Properties	Not determined
		Odor	Not determined
Vapor Pressure	Not determined	Odor Threshold	Not determined

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Section 10. Stability and reactivity																												
<b>Reactivity</b>	Under typical conditions, this substance does not undergo reactions.																											
<b>Stability</b>	This substance remains stable when stored under the recommended conditions.																											
<b>Incompatible materials</b>	Water, amines, and substances that react with polyureas.																											
<b>Possibility of hazardous reactions</b>	There's a risk of bursting, as well as reactions with alcohols, acids, alkalis, and amines. Additionally, there's a potential for an exothermic reaction.																											
<b>Conditions to Avoid</b>	Store away from heat, sparks, and open flames. Keep away from high temperatures and avoid contact with incompatible materials.																											
<b>Hazardous decomposition products</b>	None known based on information supplied.																											
Section 11. Toxicological information																												
<b>Information on likely routes of exposure</b>	Eye Contact: Prevent eye contact. Skin Contact: May cause harm if in contact with skin. Inhalation: Avoid breathing. Ingestion: Do not ingest.																											
<b>Component Information</b>	<table border="1"> <thead> <tr> <th>Chemical name</th> <th>Oral LD50</th> <th>Dermal LD50</th> <th>Inhalation LC50</th> </tr> </thead> <tbody> <tr> <td>Propylene carbonate 108-32-7</td> <td>= 29000 mg/ kg ( Rat )</td> <td>&gt; 3000 mg/ kg ( Rabbit )</td> <td>-</td> </tr> <tr> <td>Light aromatic petroleum naphtha 64742-95-6</td> <td>= 8400 mg/ kg ( Rat )</td> <td>&gt; 2000 mg/ kg ( Rabbit )</td> <td>= 3400 ppm ( Rat ) 4 h</td> </tr> <tr> <td>1,2,4 Trimethylbenzene 95-63-6</td> <td>= 3280 mg/ kg ( Rat )</td> <td>&gt; 3160 mg/ kg ( Rabbit )</td> <td>= 18 g/m3 ( Rat ) 4 h</td> </tr> <tr> <td>Cumene 98-82-8</td> <td>= 1400 mg/ kg ( Rat )</td> <td>= 12300 µL/ kg ( Rabbit )</td> <td>&gt; 3577 ppm ( Rat ) 6 h</td> </tr> <tr> <td>Xylene 1330-20-7</td> <td>= 3500 mg/ kg ( Rat )</td> <td>&gt; 4350 mg/ kg ( Rabbit )</td> <td>= 29.08 mg/L ( Rat ) 4 h</td> </tr> </tbody> </table>	Chemical name	Oral LD50	Dermal LD50	Inhalation LC50	Propylene carbonate 108-32-7	= 29000 mg/ kg ( Rat )	> 3000 mg/ kg ( Rabbit )	-	Light aromatic petroleum naphtha 64742-95-6	= 8400 mg/ kg ( Rat )	> 2000 mg/ kg ( Rabbit )	= 3400 ppm ( Rat ) 4 h	1,2,4 Trimethylbenzene 95-63-6	= 3280 mg/ kg ( Rat )	> 3160 mg/ kg ( Rabbit )	= 18 g/m3 ( Rat ) 4 h	Cumene 98-82-8	= 1400 mg/ kg ( Rat )	= 12300 µL/ kg ( Rabbit )	> 3577 ppm ( Rat ) 6 h	Xylene 1330-20-7	= 3500 mg/ kg ( Rat )	> 4350 mg/ kg ( Rabbit )	= 29.08 mg/L ( Rat ) 4 h			
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Xylene 1330-20-7	= 3500 mg/ kg ( Rat )	> 4350 mg/ kg ( Rabbit )	= 29.08 mg/L ( Rat ) 4 h																									
<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	Please see section 4 of this SDS for symptoms.																											
<b>Delayed and immediate effects as well as chronic effects from short and long-term exposure</b>																												
This product can cause mild skin irritation and serious eye irritation. It may also trigger an allergic skin reaction and has the potential to cause cancer. May be fatal if swallowed and enters airways.																												
	<b>Chemical name</b>	<b>ACGIH</b>	<b>IARC</b>	<b>NTP</b>	<b>OSHA</b>																							
	Cumene 98-82-8	A3	Group 2B	Reasonably Anticipated	X																							
	Xylene 1330-20-7		Group 3																									
<b>Legend</b>																												
ACGIH (American Conference of Governmental Industrial Hygienists)																												
A3 - Animal Carcinogen																												
IARC (International Agency for Research on Cancer)																												
Group 2B - Possibly Carcinogenic to Humans																												
Group 3 IARC components are «not classifiable as human carcinogens»																												
NTP (National Toxicology Program)																												
Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen																												
OSHA (Occupational Safety and Health Administration of the US Department of Labor)																												
X - Present																												

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<b>Numerical measures of toxicity</b>	The following values are calculated based on chapter 3.1 of the GHS document Oral LD50 - 6,415.30 mg/kg Dermal LD50 - 2,492.10 mg/kg ATEmix (inhalation-dust/mist) - 1.50 mg/l ATEmix (inhalation-vapor) - 21.50 mg/l		
<b>Section 12. Ecological information</b>			
<b>Ecotoxicity</b>	This product is harmful to aquatic life and can have long-lasting effects on aquatic ecosystems.		
<b>Component information</b>			
<b>Chemical name</b>	<b>Algae/aquatic plants</b>	<b>Fish</b>	<b>Crustacea</b>
Propylene carbonate 108-32-7	EC50: >500mg/L (72h, Desmodesmus subspicatus)	LC50: >1000mg/L (96h, Cyprinus carpio)	EC50: >500mg/L (48h, Daphnia magna)
Light aromatic petroleum naphtha 64742-95-6		LC50: =9.22mg/L (96h, Oncorhynchus mykiss)	EC50: =6.14mg/L (48h, Daphnia magna)
1,2,4 Trimethylbenzene 95-63-6		LC50: 7.19 - 8.28mg/L (96h, Pimephales promelas)	EC50: =6.14mg/L (48h, Daphnia magna)
Cumene 98-82-8	EC50: =2.6mg/L (72h, Pseudokirchneriella subcapitata)	LC50: 6.04 - 6.61mg/L (96h, Pimephales promelas) LC50: =4.8mg/L (96h, Oncorhynchus mykiss) LC50: =2.7mg/L (96h, Oncorhynchus mykiss) LC50: =5.1mg/L (96h, Poecilia reticulata)	EC50: =0.6mg/L (48h, Daphnia magna) EC50: 7.9 - 14.1mg/L (48h, Daphnia magna)
Xylene 1330-20-7		LC50: =13.4mg/L (96h, Pimephales promelas) LC50: 2.661 - 4.093mg/L (96h, Oncorhynchus mykiss) LC50: 13.5 - 17.3mg/L (96h, Oncorhynchus mykiss) LC50: 13.1 - 16.5mg/L (96h, Lepomis macrochirus) LC50: =19mg/L (96h, Lepomis macrochirus) LC50: 7.711 - 9.591mg/L (96h, Lepomis macrochirus) LC50: 23.53 - 29.97mg/L (96h, Pimephales promelas) LC50: =780mg/L (96h, Cyprinus carpio) LC50: >780mg/L (96h, Cyprinus carpio) LC50: 30.26 - 40.75mg/L (96h, Poecilia reticulata)	EC50: =3.82mg/L (48h, water flea) LC50: =0.6mg/L (48h, Gammarus lacustris)
<b>Persistence/Degradability</b>	Not determined.		
<b>Bioaccumulation</b>	There is no data for this product.		

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<b>Mobility</b>				
<b>Chemical name</b>		<b>Partition coefficient</b>		
Propylene carbonate 108-32-7		0.48		
1,2,4 Trimethylbenzene 95-63-6		3.63		
Xylene 1330-20-7		3.15		
Cumene 98-82-8		3.55		
<b>Other adverse effects</b>		Not determined.		
<b>Section 13. Disposal considerations</b>				
<b>Information on waste disposal</b>		Dispose of waste materials and contaminated packaging in compliance with relevant regional, national, and local laws and regulations. Follow appropriate disposal procedures as mandated by the authorities to ensure environmentally responsible handling of waste and contaminated packaging.		
<b>US EPA Waste Number</b>				
<b>Chemical name</b>	<b>RCRA</b>	<b>RCRA - Basis for Listing</b>	<b>RCRA - D Series Wastes</b>	<b>RCRA - U Series Wastes</b>
Cumene 98-82-8				U055
Xylene 1330-20-7		Included in waste stream: F039		U239
<b>California Hazardous Waste Status</b>				
<b>Chemical name</b>		<b>California Hazardous Waste Status</b>		
Xylene 1330-20-7		Toxic Ignitable		
Cumene 98-82-8		Toxic Ignitable		
<b>Section 14. Transport information</b>				
<b>Note</b>	Refer to the current shipping document for the latest shipping details, including any exemptions and special conditions that may apply.			
<b>DOT</b>	Not regulated			
<b>IATA</b>	Not regulated			
<b>IMDG</b>	This material may be classified as a marine pollutant.			

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### Section 15. Regulatory information

#### International Inventories

Chemical name	TSCA	TSCA Inventory Status	DSL/NDSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AIIC
1,1'-Methylene-bis[(3-methylcyclohexyl-4)-2-amino-butanedioic acid], tetraethyl ester	X	ACTIVE	X	X		X			X
Tetraethyl N,N'-(methylenedicyclohexane-4,1-diyl) bis-dl-aspartate; (Aspartic Acid Ester)	X	ACTIVE	X	X		X			X
Propylene carbonate	X	ACTIVE	X	X	X	X	X	X	X
Light aromatic petroleum naphtha	X	ACTIVE	X	X	X	X	X	X	X
1,2,4 Trimethylbenzene	X	ACTIVE	X	X	X	X	X	X	X
Cumene	X	ACTIVE	X	X	X	X	X	X	X
Xylene	X	ACTIVE	X	X	X	X	X	X	X

#### Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

#### US Federal Regulations

CERCLA	Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)	
	Cumene 98-82-8	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ	
Xylene 1330-20-7	100 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ		
SARA 313	Chemical name	CAS No	Weight-%	SARA 313 - Threshold Values %	
	1,2,4 Trimethylbenzene - 95-63-6	95-63-6	3-6	1.0	
	Cumene 98-82-8	98-82-8	0-1	0.1	
	Xylene 1330-20-7	1330-20-7	0-1	1.0	
CWA (Clean Water Act)	Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
	Xylene	100 lb			X

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US State Regulations				
California Proposition 65		This product contains the following Proposition 65 chemicals.		
		<b>Chemical name</b>	<b>California Proposition 65</b>	
		Cumene - 98-82-8	Carcinogen	
U.S. State Right-to-Know Regulations	<b>Chemical name</b>	<b>New Jersey</b>	<b>Massachusetts</b>	<b>Pennsylvania</b>
	1,2,4 Trimethylbenzene 95-63-6	X	X	X
	Cumene 98-82-8	X	X	X
	Xylene 1330-20-7	X	X	X
Section 16. Other information				
<b>Date of the latest revision of the safety data sheet</b>		June 7, 2024		
<b>References</b>		Safety Data Sheets from manufacturer/supplier & from Canadian Centre for Occupational Health and Safety, CCOHS.		
<p>To the best of our knowledge, the information provided here is accurate. However, neither the mentioned supplier nor any of its subsidiaries accepts liability for the accuracy or completeness of the information. The user is solely responsible for determining the suitability of any material. All materials may have unknown hazards and should be used cautiously. While specific hazards are outlined, we cannot guarantee these are the only hazards present. This information pertains to the current formulation of the product based on available data. The addition of reducers or other additives may significantly alter the composition and hazards. As usage conditions are beyond our control, we make no warranties, express or implied, and assume no liability for any use of this information.</p>				