



# Material Safety Data Sheet

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## Section 1. Chemical product and company identification

Prepared For

Prepared by

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**IN CASE OF EMERGENCY (HEALTH OR SPILLS):**

**CHEMTREC (US and Canada) (800) 424-9300**

Product no. : Not available.

Product - Class : Synteko Polyurethane Pro Series

Customer Part Number :

Customer ShipTo ID:

## Section 2. Composition, Information on Ingredients

Name	CAS #	% by weight	Vapor pressure	Exposure Limits (ACGIH-TLV/OSHA-PEL)
petroleum hydrocarbon	8052-41-3	10 - 25	0.07 kPa (0.5 mm Hg) (at 20°C)	<b>ACGIH TLV (United States).</b> TWA: 100 ppm 8 hour(s). <b>OSHA PEL (United States).</b> TWA: 500 ppm 8 hour(s).
aliphatic hydrocarbon	8052-41-3	10 - 25	0.3 kPa (2 mm Hg) (at 20°C)	<b>ACGIH TLV (United States).</b> TWA: 100 ppm 8 hour(s). <b>OSHA PEL (United States).</b> TWA: 500 ppm 8 hour(s).
aliphatic hydrocarbon	64742-88-7	1 - 5	0.02 kPa (0.1 mm Hg) (at 20°C)	<b>ACGIH TLV (United States).</b> TWA: 100 ppm 8 hour(s). <b>OSHA PEL (United States).</b> TWA: 100 ppm 8 hour(s).
xylene, mixed isomers	1330-20-7	1 - 5	0.7 kPa (5.1 mm Hg) (at 20°C)	<b>ACGIH TLV (United States).</b> TWA: 100 ppm 8 hour(s). STEL: 150 ppm 15 minute(s). <b>OSHA PEL (United States).</b> TWA: 100 ppm 8 hour(s).
ethyl benzene	100-41-4	0 - 1	0.9 kPa (7.1 mm Hg) (at 20°C)	<b>ACGIH TLV (United States).</b> TWA: 100 ppm 8 hour(s). STEL: 125 ppm 15 minute(s). <b>OSHA PEL (United States).</b> TWA: 100 ppm 8 hour(s).

### Section 3. Hazards identification

- Emergency overview** : Warning!
- Effects of Overexposure** : HARMFUL IF ABSORBED THROUGH SKIN.  
CAUSES SEVERE SKIN IRRITATION.  
CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE FOLLOWING ORGANS: BLOOD, KIDNEYS, LIVER, GASTROINTESTINAL TRACT, SKIN, CENTRAL NERVOUS SYSTEM, EYE, LENS OR CORNEA.  
SUSPECT CANCER HAZARD  
CONTAINS MATERIAL WHICH MAY CAUSE CANCER  
FLAMMABLE LIQUID AND VAPOR.  
VAPOR MAY CAUSE FLASH FIRE.  
CONTAINS MATERIAL WHICH MAY CAUSE DAMAGE TO THE FOLLOWING ORGANS: HEART.  
Avoid contact with eyes, skin and clothing. Keep away from heat, sparks and flame. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. Risk of cancer depends on duration and level of exposure.
- Routes of entry** : Dermal contact. Eye contact. Inhalation. Ingestion.
- Potential acute health effects**
- Eyes** : Slightly irritating to the eyes.  
Other effects of eye contact may include : redness, swelling, tearing,
- Skin** : Toxic in contact with skin. Severely irritating to the skin.  
Other effects of skin contact may include: defatting, dehydration, dermatitis, discoloration,  
Effects due to absorption through skin may include: CNS effects, diarrhea, dizziness, drowsiness, fatigue, headache, kidney damage, nausea, vomiting, weakness,
- Inhalation** : Slightly irritating to the respiratory system.  
Other effects of inhalation may include: CNS effects, diarrhea, dizziness, drowsiness, fatigue, headache, kidney damage, nausea, vomiting, weakness,
- Ingestion** : No known significant effects or critical hazards.  
Other effects of ingestion may include : CNS effects, diarrhea, dizziness, drowsiness, fatigue, gastric disturbances, headache, irritation, kidney damage, nausea, vomiting, weakness,
- Potential chronic health effects** : CARCINOGENIC EFFECTS: Classified 2B (Possible for human.) by IARC [ethyl benzene]. Classified SUSPECTED by Raw Material Supplier [methyl ethyl ketoxime].  
MUTAGENIC EFFECTS: None by OSHA standard.  
TERATOGENIC EFFECTS: None by OSHA standard.  
Contains material which causes damage to the following organs: blood, kidneys, liver, gastrointestinal tract, skin, central nervous system (CNS), eye, lens or cornea.  
Contains material which may cause damage to the following organs: heart.
- Medical conditions aggravated by overexposure** : skin disorders, respiratory conditions,

NOTICE: Reports have associated repeated and prolonged OVEREXPOSURE to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents of this package may be harmful or fatal.

**See toxicological information (section 11)**

### Section 4. First aid measures

- Eye Contact** : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.
- Skin Contact** : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
- Inhalation** : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.
- Ingestion** : Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.

## Section 5. Fire fighting measures

- Flammability of the product** : Flammable.
- Auto-ignition Temperature** : The lowest known value is 232.22°C (450°F) (petroleum hydrocarbon).
- Flash Points** : Closed cup: 44 to 46°C (111 to 115°F). (Setaflash.)
- Flammable limits** : The greatest known range is Lower: 1% Upper: 7.5% (xylene, mixed isomers)
- Products of combustion** : These products are carbon oxides (CO, CO<sub>2</sub>).
- Fire Hazards in Presence of Various Substances/Conditions** : Flammable in presence of open flames, sparks and static discharge, of oxidizing materials.  
DANGER - Rags, steel wool or waste soaked with this product may spontaneously catch fire if improperly discarded. Immediately after use, place rags, steel wool or waste in a sealed water-filled metal container. Waste should be understood to include contaminated articles, including spray booth filters and strippings.
- Explosion Hazards in Presence of Various Substances/Conditions** : Not available.
- Fire fighting media and instructions** : SMALL FIRE: Use DRY chemical powder.  
LARGE FIRE: Use alcohol foam, water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.
- Protective clothing (fire)** : Be sure to use an approved/certified respirator or equivalent.

## Section 6. Accidental release measures

- Spill and Leak** : Immediately contact emergency personnel. Eliminate all ignition sources. Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Do not touch or walk through spilled material. If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) and use a non-sparking or explosion proof means to transfer material to a sealed, appropriate container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

Dispose of as in Section 13.

## Section 7. Handling and storage

- Handling** : Avoid contact with eyes, skin and clothing. Keep container closed. Use only with adequate ventilation. Keep away from heat, sparks and flame. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Wash thoroughly after handling.
- Storage** : Store in an approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

OTHER PRECAUTIONS: All precautions must be observed. Empty container may retain product residues.

## Section 8. Exposure Controls, Personal Protection

Selection of personal protective equipment (PPE) is to be established by performing a PPE hazard assessment. In the U.S.A, OSHA requires completion of a certified PPE hazard assessment as described in 29 CFR 1910.132.

- Engineering controls** : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are close to the work-station location.

### Personal protection

**Eyes** : Safety glasses.

**Body** : Synthetic apron.

**Respiratory** : Wear appropriate respirator when ventilation is inadequate.

**Hands** : Impervious gloves.

**Feet** : Not applicable.

**Protective clothing (pictograms)** :



**HYGIENIC PRACTICES:** Good personal hygiene practices are required at all times when handling chemicals. These practices include, but are not limited to, washing when safety equipment is removed, at the end of each shift or when going on breaks and especially if contamination occurs.

## Section 9. Physical and chemical properties

<b>Physical State and Appearance</b>	: Liquid.
<b>Color</b>	: Not available.
<b>Odor</b>	: Not available.
<b>pH</b>	: Not available.
<b>Boiling/condensation point</b>	: The lowest known value is 137.222 to 142.778°C (279 to 289°F) (xylene, mixed isomers).
<b>Melting/freezing point</b>	: Not available.
<b>Specific Gravity</b>	: Weighted average: 0.78 (Water = 1)
<b>Vapor pressure</b>	: The highest known value is 0.7 kPa (5.1 mm Hg) (at 20°C) (xylene, mixed isomers).
<b>Vapor density</b>	: Heavier than air
<b>Volatility</b>	: Not available.
<b>Odor threshold</b>	: Not available.
<b>Evaporation rate</b>	: The highest known value is Lower than 1. (petroleum hydrocarbon) compared to butyl acetate
<b>VOC</b>	: 449 (g/l).
<b>Solubility</b>	: Not available.

## Section 10. Stability and reactivity

<b>Stability and Reactivity</b>	: Stable.
<b>Conditions of instability</b>	: heat, open flame, sparks,
<b>Incompatibility with various substances</b>	: Reactive with oxidizing agents.
<b>Hazardous Reaction Products</b>	: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
<b>Hazardous polymerization</b>	: Will not undergo hazardous polymerization.

## Section 11. Toxicological information

### Toxicity data

<u>Ingredient name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
xylene, mixed isomers	LD50	4300 mg/kg	Oral	Rat
	LD50	>1700 mg/kg	Dermal	Rabbit
	LC50	5000 ppm (4 hour(s))	Inhalation	Rat
ethyl benzene	LD50	3500 mg/kg	Oral	Rat
	LD50	15486 mg/kg	Dermal	Rabbit
	LC50	55000 mg/m <sup>3</sup> (2 hour(s))	Inhalation	Rat

## Section 12. Ecological information

### Ecotoxicity data

#### Ingredient name

xylene, mixed isomers

#### Species

Oncorhynchus mykiss (LC50)

Oncorhynchus mykiss (LC50)

Lepomis macrochirus (LC50)

Lepomis macrochirus (LC50)

Lepomis macrochirus (LC50)

Pimephales promelas (LC50)

Pimephales promelas (LC50)

#### Period

96 hour(s)

96 hour(s)

96 hour(s)

96 hour(s)

96 hour(s)

96 hour(s)

96 hour(s)

#### Result

3.3 mg/l

8.2 mg/l

8.6 mg/l

12 mg/l

13.3 mg/l

13.4 mg/l

843 mg/l

methyl ethyl ketoxime

**Products of degradation** : These products are carbon oxides (CO, CO<sub>2</sub>) and water.





**Toxicity of the products of biodegradation** : The products of degradation are less toxic than the product itself.

## Section 13. Disposal considerations

**Waste information** : The generation of waste should be avoided or minimised wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

**Consult your local or regional authorities.**

## Section 14. Transport information

Regulatory Information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
<b>DOT Classification</b>	UN1263	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) (petroleum hydrocarbon)	3	III		<p><b>Packaging instruction</b>  <b>Passenger Aircraft</b>            Quantity limitation: 60 L</p> <p><b>Cargo Aircraft</b>            Quantity limitation: 220 L</p> <p>R Q : 5 2 6 3 . 3 5 l b s            (2387.01kgs) [xylene, mixed isomers]</p>
<b>TDG Classification</b>	UN1263	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) (petroleum hydrocarbon)	3	III		-
<b>IMDG Class</b>	1263	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) (petroleum hydrocarbon). Marine pollutant (aliphatic hydrocarbon)	3	III		<b>Marine pollutant</b> Marine pollutant (P)
<b>IATA-DGR Class</b>	1263	PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) (petroleum hydrocarbon)	3	III		<p><b>Quantity limitation - Passenger Aircraft</b> 60 L</p> <p><b>Quantity limitation - Cargo Aircraft</b> 220 L</p>

## Section 15. Regulatory information

**U.S. Federal regulations** : All components in this product have been verified as being on the TSCA Inventory.  
 (HAPS) Clean air act (CAA) 112 regulated toxic substances: toluene; ethyl benzene; xylene, mixed isomers; cumene; glycol ethers; cobalt from co compound

### SARA 313

**Form R - Reporting requirements** : xylene, mixed isomers 1.00 - 3.00  
 ethyl benzene 0.10 - 1.00

**State regulations** : **WARNING:** This product contains a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.: ethyl benzene, toluene

### International regulations

**International lists** : All components of this product are on the CEPA DSL inventory.

## Section 16. Other information

**HMIS III ®  
 Hazardous Material  
 Information System  
 (U.S.A.)**

Health	*	2
Fire hazard		2
Physical Hazard		0
Personal protection		



Class B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).

Class D-2A: Material causing other toxic effects (VERY TOXIC).

Class D-2B: Material causing other toxic effects (TOXIC).

### Notice to reader

The absence of a positive finding indicates that we believe, to the best of our knowledge, that the negative is true.

**Disclaimer:** While Akzo Nobel Coatings believes that the data contained herein are accurate and derived from qualified sources, the data are not to be taken as a warranty or representation for which Akzo Nobel Coatings assumes legal responsibility. They are offered solely for your consideration, investigation and verification. Any use of these data and information must be determined by the user to be in accordance with applicable Federal, State, Provincial and local laws and regulations.