

# SAFETY DATA SHEET

## PPC POLYTHANE 20 – 80 Shore A

Version: 1.0

Revision Date: 12/05/2014

Print Date: 05/26/2016

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : PPC Polythane 20 – 80 shore A

Product Use Description: Polymer

Company: Polyurethane Products Corp.  
31 W Industrial Rd  
Addison, IL 60101

United States of America

Telephone: (US) +1 866-430-2775

Emergency telephone number: CHEMTREC: (24 hours) 800-424-9300  
:  
Chemtura Corporation Emergency Response: CHEMTURA : 800-292-5898  
For additional emergency telephone numbers see section 16 of the Safety Data Sheet.

Prepared by Product Safety Department  
(US) +1 866-430-2775  
MSDSRequest@chemtura.com

Recommended use of the chemical and restrictions on use

Recommended use : Polymer

### SECTION 2. HAZARDS IDENTIFICATION

Form	viscous liquid
Colour	white
Odour	slight

#### GHS Classification

Acute toxicity (Inhalation) : Category 3  
Respiratory sensitisation : Category 1  
Skin sensitisation : Category 1  
Carcinogenicity : Category 2

#### GHS Label element

Signal word : **Danger**

# SAFETY DATA SHEET

PPC POLYTHANE 20 – 80 Shore A

Version: 1.0

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Hazard pictograms



Hazard statements

: H317 May cause an allergic skin reaction.  
H331 Toxic if inhaled.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H351 Suspected of causing cancer.

Other hazards

: None

Precautionary statements

: **Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P271 Use only outdoors or in a well-ventilated area.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves.  
P281 Use personal protective equipment as required.  
P285 In case of inadequate ventilation wear respiratory protection.  
**Response:**  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P304 + P340 + P311 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P363 Wash contaminated clothing before reuse.  
**Storage:**  
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

**Carcinogenicity:**

**IARC**

Group 2B: Possibly carcinogenic to humans  
m-tolylidene diisocyanate 26471-62-5

**OSHA**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP**

Reasonably anticipated to be a human carcinogen  
m-tolylidene diisocyanate 26471-62-5

# SAFETY DATA SHEET

## PPC POLYTHANE 20 – 80 Shore A

Version: 1.0

Revision Date: 12/05/2014

Print Date: 05/26/2016

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous components

Chemical Name	CAS-No.	Concentration (%)
m-tolylidene diisocyanate	26471-62-5	>= 1 - < 3 %

### SECTION 4. FIRST AID MEASURES

If inhaled	: Remove to fresh air. Give oxygen or artificial respiration if needed. Get medical attention immediately.
In case of skin contact	: Remove contaminated clothing and shoes. Wash off with soap and plenty of water. Obtain medical attention. Wash contaminated clothing before re-use. Destroy contaminated shoes.
In case of eye contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
If swallowed	: Do NOT induce vomiting. Get medical attention immediately.
Most important symptoms and effects, both acute and delayed	: Lachrymation Breathing difficulties sensitising effects
Notes to physician	: Oxygen, if needed. For specialist advice physicians should contact the Poisons Information Service.

### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Water spray Dry chemical
Specific hazards during firefighting	: Burning produces irritant fumes. Exposure to decomposition products may be a hazard to health.

# SAFETY DATA SHEET

## PPC POLYTHANE 20 – 80 Shore A

Version: 1.0

Revision Date: 12/05/2014

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Specific extinguishing methods : Cool containers/tanks with water spray.  
Prevent fire extinguishing water from contaminating surface water or the ground water system.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas.  
Wear suitable protective equipment.  
Ensure adequate ventilation.

Environmental precautions : Do not allow contact with soil, surface or ground water.  
Do not flush into surface water or sanitary sewer system.

Methods and materials for containment and cleaning up : Supplies of suitable decontaminant/commercial decontaminant should always be kept available. Contain and cover the spillage with inert absorbent (sand, earth, vermiculite) and decontaminant/commercial decontaminant. Leave to react for at least 30 minutes. Shovel residues into open-top drums and remove for further decontamination if necessary. Clean area with water and additional decontaminant/commercial decontaminant. Test atmosphere for vapors to ensure safe working conditions before other personnel are allowed in the area. Suitable decontaminant solution: Commercial solution or water 90-95%, concentrated ammonia solution 5-10%, liquid detergent 0,2-2%. Ventilate the area.

### SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Handle and open container with care.  
Use only in area provided with appropriate exhaust ventilation.  
Slacken off drum bungs before heating to prevent any pressure build up.  
Avoid contact with moisture and prolonged exposure to temperatures above 140°F (80°C).  
Purge open drums with nitrogen before resealing.  
Do not use spot heating devices such as band heaters or torches.  
Make sure contents are completely liquid and uniform before using.  
(SEE TECHNICAL BULLETIN FOR ADDITIONAL DETAILS)

Conditions for safe storage : Keep container tightly closed.  
Keep in a dry, cool and well-ventilated place.  
Keep under nitrogen.  
Isocyanate based products react with water liberating carbon dioxide, which can lead to excessive pressure in closed

# SAFETY DATA SHEET

## PPC POLYTHANE 20 – 80 Shore A

Version: 1.0

Revision Date: 12/05/2014

Print Date: 05/26/2016

containers, and form solid insoluble polymers, which can block pipes, valves, etc. Contact with copper or copper alloys and galvanized surfaces must be avoided and valves etc made of these materials must not be used in equipment for storing and handling diisocyanates. Do not store in open containers. Damaged or punctured drums should be emptied.

Materials to avoid : Alcohols, Strong oxidizing agents, Water

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Form of exposure	Permissible concentration	Basis
m-tolylidene diisocyanate	26471-62-5	TWA	0.005 ppm	ACGIH
		STEL	0.02 ppm	ACGIH
		C	0.02 ppm 0.14 mg/m3	OSHA Z-1
		TWA	0.005 ppm 0.04 mg/m3	OSHA P0
		STEL	0.02 ppm 0.15 mg/m3	OSHA P0

**Engineering measures** : Use mechanical ventilation for general area control. Ensure that extracted air cannot be returned to the workplace through the ventilation system. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Personal protective equipment

**Respiratory protection** : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. In the case of vapour formation use a respirator with an approved filter. Respirator with a vapour filter (EN 141)

**Hand protection**

**Remarks** : butyl-rubber

**Eye protection** : Safety goggles

**Skin and body protection** : impervious clothing

**Hygiene measures** : Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in confined areas. Wear suitable gloves and eye/face protection. When using do not eat, drink or smoke. Wash thoroughly after handling.

# SAFETY DATA SHEET

## PPC POLYTHANE 20 – 80 Shore A

Version: 1.0

Revision Date: 12/05/2014

Print Date: 05/26/2016

Keep working clothes separately.  
Remove and wash contaminated clothing before re-use.  
Contaminated work clothing should not be allowed out of the workplace.  
Allergic reactions may develop after inhalation of low concentrations, also several hours after exposure. Regular medical checks, including lung function, are recommended for long term and repeated use of isocyanates.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: viscous liquid
Color	: white
Odor	: slight
Odour Threshold	: No data available
pH	: Not applicable
Solidification point	: 32 °C
Boiling point/boiling range	: No data available
Evaporation rate	: No data available
Flash point	: > 204 °C
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: No data available
<u>Solubility(ies)</u>	
Water solubility	: soluble
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity	
Viscosity, kinematic	: No data available

# SAFETY DATA SHEET

## PPC POLYTHANE 20 – 80 Shore A

Version: 1.0

Revision Date: 12/05/2014

Print Date: 05/26/2016

### SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Hazardous polymerisation does not occur.
Conditions to avoid	: Exposure to moisture.
Incompatible materials	: Alcohols Strong oxidizing agents Water
Hazardous decomposition products	: Carbon oxides Nitrogen oxides (NOx) Hydrocarbons

### SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity m-tolylidene diisocyanate (Component)	: LD50: > 5,000 mg/kg Species: Rat
Acute inhalation toxicity (Product)	: Remarks: Toxic by inhalation. : Acute toxicity estimate: 6.25 mg/l Exposure time: 4 h Method: Calculation method
Acute dermal toxicity m-tolylidene diisocyanate (Component)	: LD50: > 9,400 mg/kg Species: Rabbit
Skin irritation m-tolylidene diisocyanate (Component)	: Species: Rabbit Result: Severe skin irritation
Eye irritation m-tolylidene diisocyanate (Component)	: Species: Rabbit Result: Risk of serious damage to eyes.
Sensitisation (Product)	: Remarks: May cause sensitisation by inhalation and skin contact.
Aspiration toxicity (Product)	: No aspiration toxicity classification

# SAFETY DATA SHEET

## PPC POLYTHANE 20 – 80 Shore A

Version: 1.0

Revision Date: 12/05/2014

Print Date: 05/26/2016

Further information (Product) : Persons allergic to isocyanates, and particularly those suffering from asthma or other respiratory conditions, should not work with isocyanates.

If coughing, difficult breathing or other symptoms of poisoning occur, even after several hours, call a physician immediately.

Allergic reactions may develop after inhalation of low concentrations, also several hours after exposure. Regular medical checks, including lung function, are recommended for long term and repeated use of isocyanates.

: The product itself has not been tested.

The evaluation was performed following the calculation procedure of the preparation directive.

Allergic reactions may develop after inhalation of low concentrations, also several hours after exposure. Regular medical checks, including lung function, are recommended for long term and repeated use of isocyanates.

: The following information is applicable to a component of this material: Allergic reactions may develop after inhalation of low concentrations, also several hours after exposure. Regular medical checks, including lung function, are recommended for long term and repeated use of isocyanates.

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity effects

Toxicity to fish

m-tolylidene diisocyanate : LC50: 147 mg/l  
(Component) Exposure time: 48 h

Species: Pimephales promelas (fathead minnow)

LC50: 133 mg/l  
Exposure time: 96 h

Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates

m-tolylidene diisocyanate : LC50: > 508 mg/l  
(Component) Exposure time: 48 h  
Species: Grass shrimp (Palaemonetes pugio)

EC50: 12.5 mg/l  
Exposure time: 48 h



# SAFETY DATA SHEET

## PPC POLYTHANE 20 – 80 Shore A

Version: 1.0

Revision Date: 12/05/2014

Print Date: 05/26/2016

Species: Daphnia magna (Water flea)

Toxicity to algae  
m-tolylidene diisocyanate : EC50: 4,300 mg/l  
(Component) Exposure time: 96 h  
Species: Chlorella vulgaris (Fresh water algae)

### Elimination information (persistence and degradability)

Bioaccumulation (Product) : Remarks:  
No data available

Mobility (Product) : Remarks:  
No data available

Biodegradability (Product) : Result: No data available

### Further information on ecology

#### Ecotoxicology Assessment

Results of PBT assessment (Product)

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). Additional ecological : The product itself has not been tested.  
information

(Product) (Product) : The following information is applicable to a component of this material:

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : In accordance with local and national regulations.

Contaminated packaging : In well ventilated area, fill drums with several centimeters of water. Leave drum open and slowly shake and roll to allow water contact. Leave open to air for sufficient time to cure.

## SECTION 14. TRANSPORT INFORMATION

### ADR

Not dangerous goods

### RID

Not dangerous goods

# SAFETY DATA SHEET

PPC POLYTHANE 20 – 80 Shore A

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SAP 6.0  
SDS  
2012-2  
NA GHS

## MERCOSUR

Not dangerous goods

## DOT

Not dangerous goods

## IATA

Not dangerous goods

## IMDG

Not dangerous goods

## SECTION 15. REGULATORY INFORMATION

### SARA 311/312 Hazards

: Acute Health Hazard  
Chronic Health Hazard

### US State Regulations

**California Prop 65** WARNING! This product contains a chemical known to the State of California to cause cancer.

m-tolylidene diisocyanate

26471-62-5

**The components of this product are reported in the following inventories:**

**US.TSCA** On TSCA Inventory

**DSL** All components of this product are on the Canadian DSL. **AICS** On the inventory, or in compliance with the inventory **NZIoC** Not in compliance with the inventory

**ENCS** On the inventory, or in compliance with the inventory **KECI** On the inventory, or in compliance with the inventory **PICCS** Not in compliance with the inventory

**IECSC** On the inventory, or in compliance with the inventory **CH INV** The formulation contains substances listed on the Swiss Inventory

## SECTION 16. OTHER INFORMATION

**Further information**

**Other Emergency Phone Number**



## SAFETY DATA SHEET

### PPC POLYTHANE 20 – 80 Shore A

Version: 1.0

Revision Date: 12/05/2014

Print Date: 05/26/2016

Latin America:	Brazil	+55 113 711 9144
	All other countries	+44 (0) 1235 239 670
Mexico:		+52 555 004 8763

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