

# SAFETY DATA SHEET

[in accordance with the regulation no. 1907/2006/EG (REACH)]

Date of issue: 24.08.2018

Version: 1/ENG

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

### 1.1 Product identifier

Trade name: **PLASTIPUR® 560**

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Polyurethane sealing, Coating.

Uses advised against: not determined.

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

Supplier: **Plasti-Chemie Produktionsgesellschaft mbH**

Address: Falgardring 1  
D-08223 Falkenstein  
Germany

Telephone/Fax number: +49 3745/74432-0 / +49 3745/74432-27

**E-mail address for a competent person responsible of sds:** volkmar.lull@plasti-chemie.de

**Further information provided by:** Mr. Volkmar Lull, +49 3745/74432-0

### 1.4 Emergency telephone number

Chemtrec: 1-800-424-9300 for US

+1 703-527-3887 outside US

**Europa 112**

**Österreich** +43 1 406 43 43

**Belgien** Poison center (BE): +32 70 245 245

**Dänemark** Poison Control Hotline (DK): +45 82 12 12 12

**Finnland** Poison Information Centre (FI): +358 9 471 977

**Frankreich** ORFILA (FR): +01 45 42 59 59

**Deutschland** Giftnotruf Berlin, Tel. 030 30686 790

Poison Center Nord: +49 551 19240 (24h erreichbar, Deutsch und Englisch)

Poison Information Centre Erfurt: +49 361 730730 (Gemeinsames Giftinformationszentrum der Länder Mecklenburg-

Vorpommern, Sachsen, Sachsen-Anhalt und Thüringen c/o HELIOS Klinikum Erfurt Nordhäuser Straße 74, 99089 Erfurt)

**Irland** National Poisons Information Centre (IE): +353 1 8379964

**Island** +354 543 2222

**Italien** Poison Center, Milan (IT): +39 02 6610 1029

**Luxemburg** 112

**Niederlande** National Poisons Information Center (NL): +31 30 274 88 88 (NB: this service is only available to health professionals)

**Norwegen** Poisons Information (NO): +47 22 591300

**Portugal** Poison Information Center (PT): +351 21 330 3284

**Spanien** Poison Information Service (ES): +34 91 562 04 20

**Schweden** Poisons Information Center (SV): +46 8 33 12 31

**Schweiz** Poison Center: Tel 145; +41 44 251 51 51

**Großbritannien** NHS Direct (UK): +44 (0) 845 46 47; 111

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

Classification according to regulation (EG) 1272/2008/WE

Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1 H317, Eye Irrit. 2 H319, Acute Tox. 4 H332, Resp. Sens. 1 H334, STOT SE 3 H335, STOT RE 2 H373

Flammable liquid and vapour. May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure.

### 2.2 Label elements

This substance is graded and classified according to (EG) No. 1272/2008 [CLP].

Hazard symbols and signal words

# SAFETY DATA SHEET

[in accordance with the regulation no. 1907/2006/EG (REACH)]

Date of issue: 24.08.2018

Version: 1/ENG



**DANGER**

## Product identifier

Contains:

Xylene,  
1,6-Hexandiyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate,  
3-Isocyanatmethyl-3,3,5-trimethylcyclohexylisocyanate Isophorone di-isocyanate,  
3-Isocyanatmethyl-3,3,5-trimethylcyclohexyl isocyanate, Oligomers

## Hazard statements

H226 Flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335 May cause respiratory irritation.  
H373 May cause damage to organs through prolonged or repeated exposure.

## Precaution statements

P210 Keep away from heat/sparks/open fire/hot surfaces and other ignition source. No smoking.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P331 Do NOT induce vomiting.  
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.  
P501 Dispose of contents / container in accordance with the local/regional/national / international regulations.

## 2.3 Other hazards

The components of this mixture do not meet the criteria for PBT or vPvB in accordance of Annex XIII of REACH.

## SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

### 3.1 Substance

Not applicable.

### 3.2 Mixture

CAS: 1330-20-7 EINECS: 215-535-7	<u>Xylene:</u> Classification acc. to 1272/2008/WE: Flam. Liq. 3 H226, Asp. Tox. 1 H304 Acute Tox. 4 H312 Skin Irrit. 2 H315, Eye Irrit. 2 H319, Acute Tox. 4 H332, STOT SE 3 H335, STOT RE 2 H373	20 - 30 %
CAS: 140921-24-0 ELINCS: 411-700-4	<u>1,6-Hexandiyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate:</u> Classification acc. to 1272/2008/WE: Skin Sens. 1 H317, STOT SE 3 H335	10 - 25 %
CAS: 53880-05-0 NLP: 500-125-5	<u>3-Isocyanatmethyl-3,3,5-trimethylcyclohexyl isocyanate, Oligomers:</u> Classification acc. to 1272/2008/WE: Skin Sens. 1 H317	3 - 10 %
CAS: 108-65-6 EINECS: 203-603-9	<u>2-Methoxy-1-methylethyl acetate:</u> Classification acc. to 1272/2008/WE: Flam. Liq. 3 H226	3 - 10 %

# SAFETY DATA SHEET

[in accordance with the regulation no. 1907/2006/EG (REACH)]

Date of issue: 24.08.2018

Version: 1/ENG

CAS: 4098-71-9 EINECS: 223-861-6	<u>3-Isocyanatmethyl-3,3,5-trimethylcyclohexylisocyanate</u> <u>Isophorone di-isocyanate:</u> Classification acc. to 1272/2008/WE: Flam. Liq. 3 H226	0,3 - 1 %
CAS: 540-84-1 EINECS: 208-759-1	<u>2,2,4-Trimethylpentane:</u> Classification acc. to 1272/2008/WE: Flam. Liq. 2 H225, Asp. Tox. 1 H304, Skin Irrit. 2 H315, STOT SE 3 H336, Aquatic Acute 1 H400, Aquatic Chronic 1 H410	0,1 - 0,25 %

Additional information: For the wording of the hazard statements refer to section 16.

## ABSCHNITT 4: FIRST AID MEASUREMENTS

### 4.1 Description of first aid measurements

General information:	Take affected persons out into fresh air. Seek immediate medical advice.
Inhalation:	Supply fresh air or oxygen, seek medical attention. If unconscious place patient stably in side position for transportation. Seek medical treatment in case of complaints.
Skin contact:	Wash immediately with soap and water and rinse thoroughly. If skin irritation continues, consult a doctor.
Eye contact:	Wash the eye with the eyelid open for several minutes under running water. Protect unharmed eye. Seek immediate medical advice.
Ingestion:	Do not induce vomiting, call for medical help immediately. Drink plenty of water and provide fresh air. Call for a doctor immediately. Seek immediate medical advice.

### 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

### 4.3 Indication of any immediate medical attention and special treatment

No further relevant information available.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguish media

Suitable extinguish media: CO<sub>2</sub>; extinguishing powder or water spray. Fight larger fires with water spray with water spray.

Unsuitable extinguish media: Water with full jet.

### 5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released: Carbon monoxide (CO) and Hydrogen Cyanide (HCN).

### 5.3 Advise for firefighters

Special protective equipment: Mouth respiratory protective device. Wear fully protective suit.

Additional information: Collect contaminated firefighting water separately. It must not enter the sewage system.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Keep away from ignition sources.

Wear protective clothing.

# SAFETY DATA SHEET

[in accordance with the regulation no. 1907/2006/EG (REACH)]

Date of issue: 24.08.2018

Version: 1/ENG

Avoid inhalation of vapours. Use personal protective measures. Keep unprotected persons away.
<b>6.2 Environmental precautions</b> Do not allow product to reach sewage system, water bodies or ground/soil. In case of release of product into water bodies or sewage system, notify appropriate authority.
<b>6.3 Methods and material for containment and cleaning up</b> Ensure adequate ventilation. Absorb with liquid-binding material (sand, diatomite, acid binder, universal binders, sawdust, silica gel).
<b>6.4 Reference to other sections</b> <u>Disposal:</u> Section 13. <u>Personal protective equipment:</u> Section 8 <u>Safe Handling:</u> Section 7.

## SECTION 7: HANDLING AND STORAGE

<b>7.1 Precautions for safe handling</b> No special precautions are necessary if used correctly. Ensure good ventilation/exhaustion at the workplace. <u>Precautions for prevention of fires and explosions:</u> Prevent electrostatic charging. Keep ignition sources away - Do not smoke.
<b>7.2 Conditions for safe storage, including any incompatibilities</b> <u>Requirements for storage rooms and containers:</u> Store in a cool location. Safely prevent any seepage into the ground. Provide ventilation for receptacles. <u>Storage compatibility:</u> Keep away from foodstuffs, beverages and food. Keep away from flammable substances. <u>Additional information:</u> Keep container tightly sealed. Store in cool, dry conditions in well-sealed receptacles. Protect from heat and direct sunlight.
<b>7.3 Specific end use(s)</b> No further relevant information available.

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>8.1 Control parameters</b> <u>Components with community workplace exposure limits:</u> <u>1330-20-7 Xylene:</u> WEL Long-term value 220 mg/m <sup>3</sup> , 50 ppm Short-term value 441 mg/m <sup>3</sup> , 100 ppm Sk; BMGV <u>4098-71-9 Isocyanatmethyl-3,3,5-trimethylcyclohexylisocyanate Isophorone di-isocyanate:</u> WEL Long-term value 0,02 mg/m <sup>3</sup> Short-term value 0,07 mg/m <sup>3</sup> Sen; as -NCO <u>108-65-6 Methoxy-1-methylethyl acetate:</u> WEL Long-term value 274 mg/m <sup>3</sup> , 50 ppm Short-term value 548 mg/m <sup>3</sup> , 100 ppm Sk
<b>8.2 Exposure controls</b> <u>General safety and hygiene measures:</u> Keep away from foodstuff, beverages and food.

# SAFETY DATA SHEET

[in accordance with the regulation no. 1907/2006/EG (REACH)]

Date of issue: 24.08.2018

Version: 1/ENG

Wash hand thoroughly before breaks and at the end of work.

Avoid contact with skin and eyes.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device.



In case of intensive or longer exposure use self-contained respiratory protective device.

Hand protection:

Only use chemical protective gloves with CE labelling of Category III according to EN 374.



Selection of the glove material on consideration of the permeation times, rates of diffusion and the degradation.

Glove material:

The selection of an adequate glove not only depends on the material, but also from different other quality characteristics and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material:

The exact break through time is to be learned from the manufacturer and must be maintained. The break through time is dependent of the activity and usage time

Eye protection:



Tightly sealed goggles

Body protection:

Protective clothing.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance:

*Physical state:* Liquid  
*Colour:* Transparent  
*Odour:* Characteristic  
*Odour threshold:* Not determined.

Safety relevant basic data:

**Parameters**

		<b>Unit</b>	<b>Remark</b>
<i>Density:</i>	1,01	g/cm <sup>3</sup>	not applicable
<i>Bulk density:</i>			not applicable
<i>pH value:</i>			not determined
<i>Melting point/Melting range:</i>			not determined
<i>Boiling point/Boiling range:</i>			not determined
<i>Flash point:</i>			not applicable
<i>Flammability (solid/gaseous)</i>			not applicable
<i>Explosion dangerousness:</i>			not explosive <sup>1</sup>
<i>lower Explosion limit:</i>	0,7	Vol %	
<i>upper Explosion limit:</i>	7,5	Vol %	
<i>Ignition temperature:</i>			not determined
<i>Decomposition temperature:</i>			not determined
<i>Oxidising potential:</i>			not determined
<i>Vapour pressure:</i>			not determined
<i>Rate of vaporization:</i>			not applicable
<i>Water solubility:</i>			not miscible or difficult to mix
<i>Liposolubility:</i>			not determined
<i>Soluble in:</i>			not determined

# SAFETY DATA SHEET

[in accordance with the regulation no. 1907/2006/EG (REACH)]

Date of issue: 24.08.2018

Version: 1/ENG

<i>Distribution coefficient:</i>			not determined
<i>n-Octanol/Water:</i>	>40	s	kinematic <sup>2</sup>
<i>Viscosity:</i>			not determined
<i>Solvent separation test:</i>	330	g/L	
<i>Solvent content:</i>			

<sup>1</sup> The formation of explosive vapour/air mixtures is possible.

<sup>2</sup> ISO 2431:1993; 20°C; 6 mm Jet

## 9.2 Other information

No further relevant information available.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

No further relevant information available.

### 10.2 Chemical stability

Stable at environment temperature.

### 10.3 Possible hazardous reactions

No dangerous reactions known.

### 10.4 Conditions to avoid

Heat, flames and other sources of ignition.

### 10.5 Incompatible materials

No further relevant information available.

### 10.6 Hazardous decomposition products

No dangerous decomposition products known.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute Toxicity:

#### Relevant LD/LC50 Values:

Product:	Dermal Inhalation	LD50 (Rabbit) 4545 mg/kg (ATE) ATE mix/vapour (-) 40 mg/L ATE mix/dust/mist (-) 2,72 mg/L (ATE)
1330-20-7 Xylene:	Dermal	LD50 (Rabbit) > 1700 mg/kg
4098-71-9 Isocyanatmethyl-3,3,5-trimethylcyclohexylisocyanate Isophorone di-isocyanate:	Oral Dermal Inhalation	LD50 (Mouse) > 2645 mg/kg LD50 (Rat) > 7000 mg/kg LC50/4h (Rat) 0,031 mg/L
108-65-6 Methoxy-1-methylethyl acetate:	Oral	LD50 (Rat) 8532 mg/kg

#### Irritation to the skin:

Causes skin irritation.

#### Serious eye damage/irritation:

Causes serious eye irritation.

#### Respiratory or skin sensitisation:

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

# SAFETY DATA SHEET

[in accordance with the regulation no. 1907/2006/EG (REACH)]

Date of issue: 24.08.2018

Version: 1/ENG

CMR effects:

Carcinogenicity	Based on available data the classification criteria are not met.
Germ cell mutagenicity	Based on available data the classification criteria are not met.
Reproductive toxicity	Based on available data the classification criteria are not met.

Other information:

STOT – Single exposure	May cause respiratory irritation.
STOT – Repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	May be fatal if swallowed and enters airways

## SECTION 12: ECOLOGICAL INFORMATION

**12.1 Toxicity**

No further relevant information available.

**12.2 Persistence and degradability**

No further relevant information available.

**12.3 Bioaccumulative potential**

No further relevant information available.

**12.4 Mobility in Soil**

No further relevant information available.

**12.5 Results of PBT and vPvB assessment**

The PBT/vPvB criteria of REACH are not applicable for this substance.

**12.6 Other adverse effects**

Ecotoxic effects: remark: toxic for fish

General information: Also poisonous for fish and plankton in water bodies.

The product contains materials that are harmful to the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

**Waste treatment methods**

Disposal methods for the product:

Dispose according to national regulations.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Disposal methods for use packing:

Disposal must be made according to official regulations. Packaging may be reused or recycled after cleaning

## SECTION 14: TRANSPORT INFORMATION

**14.1 UN-Number**

UN 1866

**14.2 UN proper shipping name**

ADR 1866 Resin Solution

IMDG, IATA RESIN SOLUTION

**14.3 Transport hazard class(es)**

ADR



Class: 3 Flammable liquids

Danger chit: 3

# SAFETY DATA SHEET

[in accordance with the regulation no. 1907/2006/EG (REACH)]

Date of issue: 24.08.2018

Version: 1/ENG

IMDG, IATA



Class: 3 Flammable liquids  
Danger chit: 3

**14.4 Packing group**

III

**14.5 Environmental hazards**

Not applicable.

**14.6 Special precautions for user**

Not applicable.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable.

Transport/Additional information:

ADR

Remark

No goods for grade 3 according to 2.2.3.1.5 ADR and 2.3.2.5 IMDG  
ADR: Containers > 450 L = UN 1866 - 3 (F1) - RESIN SOLUTION, flammable  
IMDG: Containers > 30 L = UN 1866 - 3 (F1) - RESIN SOLUTION, flammable  
Outside ADR/IMDG = UN 1866 - 3 (F1) - RESIN SOLUTION, flammable

IMDG

Remark

No goods for grade 3 according to 2.2.3.1.5 ADR and 2.3.2.5 IMDG  
ADR: Containers > 450 L = UN 1866 - 3 (F1) - RESIN SOLUTION, flammable  
IMDG: Containers > 30 L = UN 1866 - 3 (F1) - RESIN SOLUTION, flammable  
Outside ADR/IMDG = UN 1866 - 3 (F1) - RESIN SOLUTION, flammable

## SECTION 15: REGULATORY INFORMATION

**15.1 Safety, health and environmental regulations/legislation specific to the substance or mixture**

**Directive 2012/18/EU**

REACH Regulation 1907/2006/EC

Regulation (EU) 2015/830

Regulation (EU) 453/2010

**National regulations:**

Other regulations, limitations and prohibitive regulations

Substances of very high concern (SVHC) according to REACH, Article 57:

It doesn't contain substances of very high concern (SVHC).

**15.2 Chemical safety assessment**

A Chemical Safety Assessment has not been carried out.

## SECTION 16: OTHER INFORMATION

**Additional details:**

Classification was made based on the data on the content of hazardous substances using the calculation method based on the guidelines of regulation 1272/2008/EC (CLP).

Relevant Phrases:

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.



# SAFETY DATA SHEET

[in accordance with the regulation no. 1907/2006/EG (REACH)]

Date of issue: 24.08.2018

Version: 1/ENG

- H317 May cause an allergic skin reaction.
- H319 Cause serious eye irritation.
- H330 Fatal if inhaled
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.

Safety Data Sheet issuing person:

Pascal Konrad

Safety Data Sheet issued on:

24.08.2016