

**WOOD ADH.800 POLYURETHANE**  
Supersedes Date: 04-Dec-2019

Revision date 04-Dec-2019  
Revision Number 1

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product Identifier

**Product Name** WOOD ADH.800 POLYURETHANE  
**Pure substance/mixture** Mixture

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

**Recommended use** Adhesives.  
**Uses advised against** None known.

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

#### Company Name

Bostik AB  
Strandbadsvaegen 22  
PO Box 903  
25109 Helsingborg, Sweden  
Tel: +46 42 19 50 00  
Fax: +46 42 19 50 20

**E-mail address** SDS.box-EU@bostik.com

### 1.4. Emergency telephone number

**Emergency Telephone**

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

<b>Acute toxicity - Inhalation (Dusts/Mists)</b>	Category 4 - (H332)
<b>Skin corrosion/irritation</b>	Category 2 - (H315)
<b>Serious eye damage/eye irritation</b>	Category 2 - (H319)
<b>Respiratory sensitisation</b>	Category 1 - (H334)
<b>Skin sensitisation</b>	Category 1 - (H317)
<b>Carcinogenicity</b>	Category 2 - (H351)
<b>Specific target organ toxicity (single exposure)</b>	Category 3 - (H335)
<b>Specific target organ toxicity — repeated exposure</b>	Category 2 - (H373)

### 2.2. Label Elements

Contains: 4,4'-Methylenediphenyl diisocyanate, Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]-, Isocyanic acid, polymethylenepolyphenylene ester, polymer with 1,2-ethanediamine, methyloxirane and 1,2-propanediol, Isocyanic acid, polymethylenepolyphenylene ester

# SAFETY DATA SHEET

WOOD ADH.800 POLYURETHANE  
Supersedes Date: 04-Dec-2019

Revision date 04-Dec-2019  
Revision Number 1



**Signal word**  
DANGER

## Hazard statements

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  
H351 - Suspected of causing cancer  
H373 - May cause damage to organs through prolonged or repeated exposure

## EU Specific Hazard Statements

EUH204 - Contains isocyanates. May produce an allergic reaction

## Precautionary statements

P102 - Keep out of reach of children  
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed  
P260 - Do not breathe vapour  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P284 - Wear respiratory protection  
P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor

## Additional information

This product requires tactile warnings if supplied to the general public. .

Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. Type A1 according to standard EN 14387) is used. Reserved for industrial and professional use.

## 2.3. Other Hazards

No information available

## PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable

### 3.2. Mixtures

Chemical name	EC No.	CAS No.	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	REACH Registration Number
Isocyanic acid, polymethylenepolyphenyl	-	67815-87-6	40 - <80	STOT SE 3 (H335)		Exempt(P)

# SAFETY DATA SHEET

**WOOD ADH.800 POLYURETHANE**  
**Supersedes Date:** 04-Dec-2019

**Revision date** 04-Dec-2019  
**Revision Number** 1

lene ester, polymer with 1,2-ethanediamine, methyloxirane and 1,2-propanediol				STOT RE 2 (H373) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Resp. Sens. 1 (H334) Skin Sens. 1 (H317) Acute Tox. 4 (H332)		
Isocyanic acid, polymethylenepolyphenylene ester	618-498-9	9016-87-9	>25 - <40	STOT SE 3 (H335) STOT RE 2 (H373) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Resp. Sens. 1 (H334) Skin Sens. 1 (H317) Carc. 2 (H351) Acute Tox. 4 (H332)	STOT SE 3 :: C>=5% Skin Irrit. 2 :: C>=5% Eye Irrit. 2 :: C>=5% Resp. Sens. 1 :: C>=0.1%	Exempt(P)
4,4'-Methylenediphenyl diisocyanate	202-966-0	101-68-8	1 - <5	Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Resp. Sens. 1 (H334) Skin Sens. 1 (H317) Carc. 2 (H351) STOT SE 3 (H335) STOT RE 2 (H373)	STOT SE 3 :: C>=5% Skin Irrit. 2 :: C>=5% Eye Irrit. 2 :: C>=5% Resp. Sens. 1 :: C>=0.1%	01-2119457014-47-XXXX
Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]-	227-534-9	5873-54-1	1 - <5	Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Resp. Sens. 1 (H334) Skin Sens. 1 (H317) Carc. 2 (H351) STOT SE 3 (H335) STOT RE 2 (H373)	Eye Irrit. 2 :: C>=5% Resp. Sens. 1 :: C>=0.1% Skin Irrit. 2 :: C>=5% STOT SE 3 :: C>=5%	01-2119480143-45-XXXX
Benzene, 1,1'-methylenebis[2-isocyanato-	219-799-4	2536-05-2	0.1- <1	Acute Tox. 4 (H332) Skin Irrit. 2	Eye Irrit. 2 :: C>=5% Resp. Sens. 1 :: C>=0.1%	01-2119927323-43-XXXX

# SAFETY DATA SHEET

WOOD ADH.800 POLYURETHANE  
Supersedes Date: 04-Dec-2019

Revision date 04-Dec-2019  
Revision Number 1

				(H315) Eye Irrit. 2 (H319) Resp. Sens. 1 (H334) Skin Sens. 1 (H317) Carc. 2 (H351) STOT SE 3 (H335) STOT RE 2 (H373)	Skin Irrit. 2 :: C>=5% STOT SE 3 :: C>=5%	
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## Full text of H- and EUH-phrases: see section 16

Note: ^ indicates not classified, however, the substance is listed in section 3 as it has an OEL

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>General advice</b>	Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention.
<b>Inhalation</b>	May cause allergic respiratory reaction. If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Get immediate medical advice/attention.
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist. Do not rub affected area. Get medical attention if irritation develops and persists.
<b>Skin contact</b>	May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a doctor. Wash off immediately with soap and plenty of water for at least 15 minutes.
<b>Ingestion</b>	May produce an allergic reaction. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention. Clean mouth with water. Drink 1 or 2 glasses of water.
<b>Self-protection of the first aider</b>	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required. See section 8 for more information. Avoid breathing vapours or mists.

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

<b>Symptoms</b>	May cause allergy or asthma symptoms or breathing difficulties if inhaled. Coughing and/or wheezing. Itching. Rashes. Hives. Burning sensation. Difficulty in breathing.
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### 4.3. Indication of any immediate medical attention and special treatment needed

<b>Note to doctors</b>	May cause sensitisation in susceptible persons. Treat symptomatically.
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## SECTION 5: Firefighting measures

# SAFETY DATA SHEET

WOOD ADH.800 POLYURETHANE  
Supercedes Date: 04-Dec-2019

Revision date 04-Dec-2019  
Revision Number 1

## 5.1. Extinguishing media

**Suitable extinguishing media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** Full water jet. Do not scatter spilled material with high pressure water streams.

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

**Specific hazards arising from the chemical** Product is or contains a sensitiser. May cause sensitisation by inhalation and skin contact. May cause sensitisation by skin contact.

**Hazardous combustion products** Carbon oxides. Carbon monoxide. Nitrogen oxides (NOx).

## 5.3. Advice for firefighters

**Special protective equipment for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## **SECTION 6: Accidental release measures**

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

**Personal precautions** Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid breathing vapours or mists.

**Other information** Refer to protective measures listed in Sections 7 and 8.

**For emergency responders** Use personal protection recommended in Section 8.

### 6.2. Environmental precautions

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

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

**Methods for containment** Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

**Methods for cleaning up** Take up mechanically, placing in appropriate containers for disposal.

### 6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Provide extract ventilation to points where emissions occur. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Take off contaminated clothing and wash it before reuse. Avoid breathing vapours or mists.

**General hygiene considerations** Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and immediately after handling the product.

# SAFETY DATA SHEET

WOOD ADH.800 POLYURETHANE  
Supersedes Date: 04-Dec-2019

Revision date 04-Dec-2019  
Revision Number 1

## 7.2. Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children.

## 7.3. Specific end use(s)

**Specific Use(s)**  
Adhesives.

**Risk Management Methods (RMM)** The information required is contained in this Safety Data Sheet.

**Other information** Observe technical data sheet.

## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

#### Exposure Limits

Only European Community Occupational Exposure Limits will be shown in this document. Please refer to regional SDS for further information.

**Derived No Effect Level (DNEL)** No information available

Derived No Effect Level (DNEL)	
4,4'-Methylenediphenyl diisocyanate (101-68-8)	
Type	worker Short term Systemic health effects
Exposure route	Dermal
Derived No Effect Level (DNEL)	50 mg/kg bw/d

Type	worker Short term Systemic health effects
Exposure route	Inhalation
Derived No Effect Level (DNEL)	0.1 mg/m <sup>3</sup>

Type	worker Short term Local health effects
Exposure route	Dermal
Derived No Effect Level (DNEL)	28700 µg/cm <sup>2</sup>

Type	worker Short term Local health effects
Exposure route	Inhalation
Derived No Effect Level (DNEL)	0.1 mg/m <sup>3</sup>

Type	worker Long term Systemic health effects
Exposure route	Inhalation
Derived No Effect Level (DNEL)	0.05 mg/m <sup>3</sup>

Type	worker Long term Local health effects
Exposure route	Inhalation
Derived No Effect Level (DNEL)	0.05 mg/m <sup>3</sup>

Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]- (5873-54-1)	
Type	worker Long term Local health effects
Exposure route	Inhalation
Derived No Effect Level (DNEL)	0.05 mg/m <sup>3</sup>

Type	worker Short term Local health effects
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# SAFETY DATA SHEET

WOOD ADH.800 POLYURETHANE  
 Supersedes Date: 04-Dec-2019

Revision date 04-Dec-2019  
 Revision Number 1

Exposure route	Inhalation
Derived No Effect Level (DNEL)	0.1 mg/m <sup>3</sup>

## Derived No Effect Level (DNEL) 4,4'-Methylenediphenyl diisocyanate (101-68-8)

Type	Consumer Short term Systemic health effects
Exposure route	Dermal
Derived No Effect Level (DNEL)	25 mg/kg bw/d

Type	Consumer Short term Systemic health effects
Exposure route	Inhalation
Derived No Effect Level (DNEL)	0.05 mg/m <sup>3</sup>

Type	Consumer Short term Systemic health effects
Exposure route	Oral
Derived No Effect Level (DNEL)	20 mg/kg bw/d

Type	Consumer Short term Local health effects
Exposure route	Dermal
Derived No Effect Level (DNEL)	17200 µg/cm <sup>2</sup>

Type	Consumer Short term Local health effects
Exposure route	Inhalation
Derived No Effect Level (DNEL)	0.05 mg/m <sup>3</sup>

Type	Consumer Long term Systemic health effects
Exposure route	Inhalation
Derived No Effect Level (DNEL)	0.025 mg/m <sup>3</sup>

Type	Consumer Long term Local health effects
Exposure route	Inhalation
Derived No Effect Level (DNEL)	0.025 mg/m <sup>3</sup>

**Predicted No Effect Concentration (PNEC)** No information available.

## Predicted No Effect Concentration (PNEC) 4,4'-Methylenediphenyl diisocyanate (101-68-8)

Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	1 mg/l
Marine water	0.1 mg/l
Soil	1 mg/kg dry weight
Sewage treatment plant	1 mg/l
Freshwater - intermittent	10 mg/l

## Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]- (5873-54-1)

Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	1 mg/l
Marine water	0.1 mg/l
Sewage treatment plant	1 mg/l
Soil	1 mg/kg dry weight
Freshwater - intermittent	10 mg/l

## 8.2. Exposure controls

**Engineering controls** Ensure adequate ventilation, especially in confined areas. Vapours/aerosols must be exhausted directly at the point of origin.

## Personal Protective Equipment

# SAFETY DATA SHEET

WOOD ADH.800 POLYURETHANE  
Supersedes Date: 04-Dec-2019

Revision date 04-Dec-2019  
Revision Number 1

<b>Eye/face protection</b>	Wear safety glasses with side shields (or goggles). Eye protection must conform to standard EN 166
<b>Hand protection</b>	Nitrile rubber. Butyl rubber. Glove thickness > 0.4 mm. The breakthrough time of the gloves depends on the material and the thickness as well as the temperature. The breakthrough time for the mentioned glove material is in general greater than 60 min. Gloves must conform to standard EN 374
<b>Skin and body protection</b>	Suitable protective clothing.
<b>Recommended filter type:</b>	Wear a respirator conforming to EN 140 with Type A/P2 filter or better. Organic gases and vapours filter conforming to EN 14387.

**Environmental exposure controls** No information available.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Physical state</b>	Liquid
<b>Appearance</b>	Liquid
<b>Colour</b>	dark brown
<b>Odour</b>	Earthy
<b>Odour threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No data available	
Melting point / freezing point	No data available	
Boiling point / boiling range	~368 @ 1.013 hPa	
Flash point	> 250 °C	
Evaporation rate	No data available	
Flammability (solid, gas)	Not applicable for liquids .	
Flammability Limit in Air		
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapour pressure	1.6	
Vapour density	No data available	
Relative density	No data available	
Water solubility	No data available	
Solubility(ies)	No data available	
Partition coefficient	No data available	
Autoignition temperature	No data available	
Decomposition temperature	No data available	
Kinematic viscosity	No data available	
Dynamic viscosity	~5.400 mPa s	
Explosive properties	No data available	
Oxidising properties	No data available	

### 9.2. Other information

<b>Solid content (%)</b>	No information available
<b>Softening Point</b>	No information available
<b>Molecular weight</b>	No information available
<b>VOC Content (%)</b>	No information available
<b>Density</b>	1.15 g/cm <sup>3</sup>
<b>Bulk density</b>	No information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity** No information available.



# SAFETY DATA SHEET

WOOD ADH.800 POLYURETHANE  
Supercedes Date: 04-Dec-2019

Revision date 04-Dec-2019  
Revision Number 1

## 10.2. Chemical stability

**Stability** Stable under normal conditions.

### **Explosion Data**

**Sensitivity to mechanical impact** None.

**Sensitivity to static discharge** None.

## 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** Exothermic reaction with. Amines. Alcohols. Contact with water (moisture) liberates carbon dioxide, which causes pressure increase in closed containers.

## 10.4. Conditions to avoid

**Conditions to avoid** No information available.

## 10.5. Incompatible materials

**Incompatible materials** No information available.

## 10.6. Hazardous decomposition products

**Hazardous decomposition products** None under normal use conditions. Stable under recommended storage conditions.

## **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

#### Information on likely routes of exposure

#### **Product Information**

**Inhalation** Specific test data for the substance or mixture is not available. May cause sensitisation in susceptible persons. (based on components). May cause irritation of respiratory tract. Harmful by inhalation.

**Eye contact** Irritating to eyes. Causes serious eye irritation.

**Skin contact** Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). May cause sensitisation by skin contact. Causes skin irritation.

**Ingestion** Specific test data for the substance or mixture is not available. May cause additional affects as listed under "Inhalation". Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing. Coughing and/ or wheezing. Itching. Rashes. Hives. Redness. May cause redness and tearing of the eyes.

#### Numerical measures of toxicity

#### **Acute Toxicity**

The following values are calculated based on chapter 3.1 of the GHS document

# SAFETY DATA SHEET

WOOD ADH.800 POLYURETHANE  
 Supersedes Date: 04-Dec-2019

Revision date 04-Dec-2019  
 Revision Number 1

ATEmix (inhalation-dust/mist) 1.50 mg/l

## Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Isocyanic acid, polymethylenepolyphenylene ester, polymer with 1,2-ethanediamine, methyloxirane and 1,2-propanediol 67815-87-6		LD 50 > 9400 mg/kg (Oryctolagus cuniculus) OECD 402	
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	LD50 > 10000 mg/kg (Rattus)	LD 50 > 9400 mg/kg (Oryctolagus cuniculus)	=1.5 mg/L (Rattus) 4 h
4,4'-Methylenediphenyl diisocyanate 101-68-8	=31600 mg/kg (Rattus) = 9200 mg/kg (Rattus)	LD 50 > 9400 mg/kg (Oryctolagus cuniculus) OECD 402	=1.5 mg/L (Rattus) 4 h
Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]- 5873-54-1	LD50 >2000 mg/Kg (Rattus)	LD 50 > 9400 mg/kg (Oryctolagus cuniculus) OECD 402	=1.5 mg/L (4h) Rat
Benzene, 1,1'-methylenebis[2-isocyanato- - 2536-05-2	LD50 > 2000 mg/kg (Rattus)	LD 50 > 9400 mg/kg (Oryctolagus cuniculus) OECD 402	=1.5 mg/L (4h) Rat

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation** Classification based on data available for ingredients. Causes skin irritation.

Component Information					
Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)					
Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 404: Acute Dermal Irritation/Corrosion	Rabbit				Mild skin irritant

**Serious eye damage/eye irritation** Causes serious eye irritation.

**Respiratory or skin sensitisation** May cause sensitisation by inhalation. May cause sensitisation by skin contact.

Component Information			
Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)			
Method	Species	Exposure route	Results
OECD Test No. 406: Skin Sensitisation	Guinea pig		No sensitisation responses were observed
OECD Test No. 429: Skin Sensitisation: Local Lymph Node Assay	Mouse		sensitising

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**Carcinogenicity** Classification based on data available for ingredients. Contains a known or suspected carcinogen.

# SAFETY DATA SHEET

WOOD ADH.800 POLYURETHANE  
 Supersedes Date: 04-Dec-2019

Revision date 04-Dec-2019  
 Revision Number 1

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component Information		
Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)		
Method	Species	Results
OECD Test No. 453: Combined Chronic Toxicity/Carcinogenicity Studies	Rat	Carcinogenic

4,4'-Methylenediphenyl diisocyanate (101-68-8)	
Chemical name	European Union
4,4'-Methylenediphenyl diisocyanate 101-68-8	Carc. 2
Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]- 5873-54-1	Carc. 2
Benzene, 1,1'-methylenebis[2-isocyanato- 2536-05-2	Carc. 2

**Reproductive toxicity** Based on available data, the classification criteria are not met.

**STOT - single exposure** May cause respiratory irritation.

**STOT - repeated exposure** May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard** Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to Micro-organisms	Crustacea	M-Factor	M-Factor (long-term)
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	ErC50 (72h) >1640 mg/L Algae (scenedesmus subspicatus) (OECD 201)	CL50 (96h) >1000 mg/L (Danio rerio)	-	EC50 (24H) >1000 mg/L Daphnia magna		
4,4'-Methylenediphenyl diisocyanate 101-68-8	ErC50 (72h) >1640 mg/L Algae (scenedesmus subspicatus) (OECD 201)	>1000 mg/l (Danio rerio)	-	EC50 (24H) >1000 mg/L Daphnia magna		
Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]- 5873-54-1	ErC50 (72h) >1640 mg/L Algae (scenedesmus subspicatus) (OECD 201)	LC50 (96 h) > 1000 mg/l (Danio rerio) OECD 203	-	EC50 (24H) >1000 mg/L Daphnia magna		
Benzene, 1,1'-methylenebis[2-isocyanato- 2536-05-2	-	LC50 (96 h) > 1000 mg/l (Danio rerio) OECD 203	-	-		

### 12.2. Persistence and degradability

# SAFETY DATA SHEET

WOOD ADH.800 POLYURETHANE  
Supersedes Date: 04-Dec-2019

Revision date 04-Dec-2019  
Revision Number 1

**Persistence and degradability** No information available.

Component Information			
Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)			
Method	Exposure time	Value	Results
OECD Test No. 302C: Inherent Biodegradability: Modified MITI Test (II)	28 days	0% biodegradation	Not readily biodegradable

4,4'-Methylenediphenyl diisocyanate (101-68-8)			
Method	Exposure time	Value	Results
OECD Test No. 302C: Inherent Biodegradability: Modified MITI Test (II)	28 days	0% biodegradation	Not readily biodegradable

## 12.3. Bioaccumulative potential

**Bioaccumulation** There is no data for this product.

## Component Information

Chemical name	Partition coefficient	Bioconcentration factor (BCF)
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	-	< 14
4,4'-Methylenediphenyl diisocyanate 101-68-8	4.51	200
Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]- 5873-54-1	-	200
Benzene, 1,1'-methylenebis[2-isocyanato- 2536-05-2	-	200

## 12.4. Mobility in soil

**Mobility in soil** No information available.

## 12.5. Results of PBT and vPvB assessment

**PBT and vPvB assessment** The components in this formulation do not meet the criteria for classification as PBT or vPvB. .

Chemical name	PBT and vPvB assessment
4,4'-Methylenediphenyl diisocyanate 101-68-8	The substance is not PBT / vPvB
Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]- 5873-54-1	The substance is not PBT / vPvB
Benzene, 1,1'-methylenebis[2-isocyanato- 2536-05-2	The substance is not PBT / vPvB

## 12.6. Other adverse effects

**Other adverse effects** No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

# SAFETY DATA SHEET

WOOD ADH.800 POLYURETHANE  
Supersedes Date: 04-Dec-2019

Revision date 04-Dec-2019  
Revision Number 1

<b>Waste from residues/unused products</b>	Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable.
<b>Contaminated packaging</b>	Do not reuse empty containers. Handle contaminated packages in the same way as the product itself.
<b>European Waste Catalogue</b>	08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances 15 01 10*: Packaging containing residues of or contaminated by dangerous substances
<b>Other information</b>	Waste codes should be assigned by the user based on the application for which the product was used.

## SECTION 14: Transport information

### Land transport (ADR/RID)

14.1 UN Number	Not regulated
14.2 Proper Shipping Name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing Group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special Provisions	None

### IMDG

14.1 UN number	Not regulated
14.2 Proper Shipping Name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Marine Pollutant	Np
14.6 Special Provisions	None
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable

### Air transport (ICAO-TI / IATA-DGR)

14.1 UN number	Not regulated
14.2 Proper Shipping Name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special Provisions	None

## Section 15: REGULATORY INFORMATION

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Check whether measures in accordance with Directive 94/33/EC for the protection of young people at work must be taken.

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

#### Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)

#### **SVHC: Substances of Very High Concern for Authorisation:**

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No.

# SAFETY DATA SHEET

WOOD ADH.800 POLYURETHANE  
Supersedes Date: 04-Dec-2019

Revision date 04-Dec-2019  
Revision Number 1

1907/2006 (REACH), Article 59)

## EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Chemical name	CAS No.	Restricted substance per REACH Annex XVII
4,4'-Methylenediphenyl diisocyanate	101-68-8	56[a].
Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]-	5873-54-1	56[b].
Benzene, 1,1'-methylenebis[2-isocyanato-	2536-05-2	56[c].

### 56

If product supplied to the general public with substance  $\geq 0.1\%$ , then gloves must be provided with the product

## Substance subject to authorisation per REACH Annex XIV

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

## Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

## Persistent Organic Pollutants

Not applicable

## National Regulations

### France

#### Occupational Illnesses (R-463-3, France)

Chemical name	French RG number
4,4'-Methylenediphenyl diisocyanate 101-68-8	RG 62
Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]- 5873-54-1	RG 62
Benzene, 1,1'-methylenebis[2-isocyanato- 2536-05-2	RG 62

### Germany

#### Ordinance on Industrial Safety and Health - Germany - BetrSichV

No flammable liquids in accordance with BetrSichV

Water hazard class (WGK) WGK 1

### Netherlands

#### List of Carcinogenic, mutagenic and reproductive toxin substances in accordance with Inspectorate SZW (Netherlands)

Not Listed

### Denmark

MAL-Code 00-3 (1993)

## 15.2. Chemical safety assessment

# SAFETY DATA SHEET

WOOD ADH.800 POLYURETHANE  
Supersedes Date: 04-Dec-2019

Revision date 04-Dec-2019  
Revision Number 1

Chemical Safety Assessments have been carried out by the Reach registrants for substances registered at >10 tpa. No  
Chemical Safety Assessment has been carried out for this mixture

## SECTION 16: Other information

### Key or legend to abbreviations and acronyms used in the safety data sheet

#### Full text of H-Statements referred to under section 3

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  
H351 - Suspected of causing cancer  
H373 - May cause damage to organs through prolonged or repeated exposure

#### **Legend**

SVHC: Substances of Very High Concern for Authorisation:

#### **Legend** SECTION 8: Exposure controls/personal protection

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
PBT	Persistent, Bioaccumulative, and Toxic (PBT) Chemicals		
STOT RE	Specific target organ toxicity - Repeated exposure		
STOT SE	Specific target organ toxicity - Single exposure		
EWC:	European Waste Catalogue		

#### **Key literature references and sources for data**

No information available

**Prepared By** Product Safety & Regulatory Affairs

**Revision date** 04-Dec-2019

#### Indication of changes

**Revision note** Not applicable.

**Training Advice** No information available

**Further information** No information available

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

#### **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.

**End of Safety Data Sheet**