

# Safety Data Sheet

In accordance with directive 1907/2006/EC, 2015/830

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Version 1.0

Issue date: 28-8-2020

Print date: 29-6-2021

Trade name: Polyurethane

Casting Resin Flexible A60 A

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

### 1.1 Product identification:

Product name: Polyurethane Casting Resin  
Flexible A60 A

Use: Relevant identified uses of the substance or mixture Polyurethane is a component.

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

Responsible distributor : Nedform BV  
Hofdwarsweg 20  
6161DD Geleen  
The Netherlands  
Tel: +31 464106260  
Website: [www.nedform.com](http://www.nedform.com)

### 1.4 Emergency telephone number:

For Belgium:

Email: [info@nedform.com](mailto:info@nedform.com)

NHS 24 Direct

Call the **Poison Control Center (070 245 245 - free)**, if not available: **02 264 96 30** (normal rate) or your doctor. In life-threatening situations, always call the European emergency number **112**.  
For help from a GP, visit your GP surgery's website, use an online service to contact your GP, or call the surgery.  
**For urgent medical help**, use the NHS 111 online service, or **call 111** if you are unable to get help online.  
**For life-threatening emergencies, call 999** for an ambulance. There is more information about getting medical help on the NHS website.

## **SECTION 2: Hazard identification**

### 2.1 Classification of the substance or mixture:

**Classification according to Directive (EC) No 1272/2008 and its amendments.**

The product is not classified as dangerous according to EC regulation 1272/2008 (CLP).

**Adverse physicochemical effects, effects on human health and the environment:**

No other hazards

### 2.2 Label elements:

**Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]:**

**Hazard pictograms:** None

**Signal word** No

**Hazardous ingredients which must be stated on the label**

✓ 4-methyl-m-phenylene diisocyanate. May cause an allergic reaction.

**Indications of danger:** No

**Precautions**

**Prevention:** No

**Action:** None

**Special provisions:**

EUH204 Contains isocyanates. May cause allergic reaction.

EUH210 Safety data sheet available on request.

**Special provisions according to Annex XVII of REACH and subsequent amendments:**

No

### 2.3 Other hazards:

vPvB-substances: None - PBT Substances None

Other hazards:

No other hazards

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## **SECTION 3: Composition and information on ingredients**

### **3.2 Mixtures:**

#### **Description:**

Hazardous components within the meaning of the CLP regulation and related classification:

<b>Chemical Name</b>	<b>Cas No. EC No/List Registration number</b>	<b>Layout (Regulation (EC) No 1272/008)</b>	<b>Concentration (%)</b>
4-methyl-m-phenylene diisocyanate	584-84-9 209-544-5 01-2119454791-34	Acute Tox. 1 H330 Eye Irrit. 2 H319 STOT SE 3 H335 Skin Irrit. 2 H315 Resp. Sens. 1.1A, 1B H334 Skin Sens. 1,1A, 1B H317 Carc. 2 H351 Aquatic Chronic 3 H412	>= 0.1% - < 0.25%

For explanation of abbreviations see section 16.

## **SECTION 4: First aid measures**

### **4.1 Description of first aid measures:**

#### **In case of skin contact:**

Wash with plenty of water and soap.

#### **In case of eye contact:**

After contact with eyes, rinse with water for a sufficient period of time with the eyelids open, then consult an ophthalmologist immediately.

#### **In case of ingestion:**

Under no circumstances induce vomiting. GET A MEDICAL EXAMINATION IMMEDIATELY.

#### **In case of inhalation:**

Take the victim into the fresh air and keep him warm and calm.

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

#### **Appearances:**

No

### **4.3 Indication of any immediate medical attention and special treatment needed:**

In case of accident or feeling unwell, seek medical advice immediately (show the instructions for use or the Safety Data Sheet where possible).

#### **Treatment:**

No

## **SECTION 5: Fire-fighting measures**

### **5.1 Extinguishing media:**

#### **Suitable extinguishing media:**

Water.

Carbon dioxide (CO<sub>2</sub>).

#### **Extinguishing media which must not be used for safety reasons:**

None in particular.

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

#### **Specific fire fighting hazards:**

Do not inhale explosion gases or combustion gases.

Burning produces heavy smoke.

### **5.3 Advice for firefighters:**

#### **Special protective equipment for firefighters:**

Use suitable respiratory equipment.

Collect contaminated extinguishing water separately. It may not be discharged into the sewage system.

Move undamaged containers out of the immediate danger zone if this can be done safely.

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## **SECTION 6: Accidental release measures for the substance or mixture**

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

#### **Personal precautions:**

Wear personal protective equipment.  
Bringing people to safety.  
See protective measures under points 7 and 8.

### **6.2 Environmental precautions:**

#### **Environmental precautions:**

Do not allow to enter soil/subsoil. Do not allow to enter surface water or the sewage system.  
Collect and dispose of contaminated wash water.  
In the event of gas escape or entry into waterways, soil or sewage system, inform the responsible authorities.  
Suitable material for absorption: absorbent material, organic, sand.

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

#### **Cleaning methods:**

Wash with plenty of water.

### **6.4 Reference to other sections:**

See also section 8 and 13.

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

### **7.1 Precautions for safe handling**

Avoid contact with skin and eyes, inhalation of vapours and spray.  
Do not eat or drink during work.  
See also section 8 for recommended protective equipment.

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

Store in original containers, dry, tightly closed, in a cool and well-ventilated area.  
Avoid contact with skin, eyes and clothing.  
Keep away from food, drink and feed.  
Mismatched materials: None in particular.  
Instructions on storage areas: Sufficiently ventilated rooms.

### **7.3 Specific end use:**

None in particular.

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

### **8.1 Control parameters:**

4-methyl-m-phenylene diisocyanate - CAS: 584-84-9

ACGIH - TWA (8 hours): 0.001 ppm - STEL: 0.005 ppm - Comments: (IFV), Skin, DSEN, RSEN, A3 - Asthma, pulm func, eye irritation

#### **DNEL exposure limits**

N/A

#### **PNEC exposure limits**

N/A

### **8.2 Exposure controls:**

#### **Eye protection:**

Wear safety goggles (ref. Standard EN 166).

#### **Protection for the skin:**

Safety shoes.

Wear long-sleeved working clothes and safety shoes for professional use of category I (REF. Dir. 89/686 / EEC and EN 344).

#### **Protection for hands:**

Protect your hands with work gloves (ref. Directive 89/686 / EEG and its amendments and EN 374/2003)

#### **Respiratory protection:**

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Use suitable protective breathing equipment. (Ref. Dir. 89/686 / EEC as amended - UNI PROTECTED / 1998 - UNI EN 529/2006)

**Thermal hazards:**

No

**Controlling environmental exposure:**

Avoid entering sewers, basements or other places where accumulation can be dangerous.

**Appropriate technical measures:**

No

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties:**

Appearance:	liquid
Colour:	pale yellow
Odour:	characteristic
Odour threshold:	Not implemented
pH:	Not performed
Melting/freezing point	Not applicable
Boiling point/boiling range:	> 300 °C
Flash point:	> 170 °C
Evaporation rate:	Not carried out
Upper explosion limit:	Not applicable
Lower explosion limit:	Not applicable
Vapour pressure:	Not applicable
Relative vapour density:	Not performed
Density:	1.01 g/cm <sup>3</sup> (25 °C)
Bulk density:	Not carried out
Solubility in water:	Not carried out
Solubility in other solvents:	Not performed
Partition coefficient: n-octanol/water:	No data available
Ignition temperature:	Not applicable
Auto-ignition temperature:	Not applicable
Thermal decomposition:	Method: No data available
Viscosity	
Viscosity, dynamic:	Not carried out
Viscosity, kinematic:	Not carried out
Explosive properties:	Not applicable
Oxidising properties:	Not applicable

**9.2 Other information**

Surface tension:	Not performed
Sublimation point:	Not applicable

**SECTION 10: Stability and reactivity**

**10.1 Reactivity:**

There are no particular risks of reaction with other substances under normal conditions of use.

**10.2 Chemical Stability:**

The product is stable under normal use and storage conditions.

**10.3 Potentially hazardous reactions:**

None.

**10.4 Conditions to avoid**

Stable under normal conditions.

**10.5 Chemically Interacting Materials:**

None in particular.

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## 10.6 Hazardous decomposition products:

None.

## **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects:

#### **Toxicological information of the product**

N/A

#### **Toxicological information of the main substances contained in the product:**

4-methyl-m-phenylene diisocyanate - CAS: 584-84-9

LD50 (RAT) ORAL: 6170 MG/KG

If not otherwise specified, the information required by Regulation (EU) 2015/830 below should be considered as N/A:

- (a) acute toxicity;
- (b) skin corrosion/irritation;
- (c) serious eye damage/irritation;
- (d) respiratory or skin sensitisation;
- (e) mutagenicity in germ cells;
- (f) carcinogenicity;
- (g) reproductive toxicity;
- (h) STOT single exposure;
- (i) STOT on repeated exposure;
- (j) hazard of aspiration.

## **SECTION 12: Ecological information**

### 12.1 Toxicity:

Apply good working practices so that the product does not end up in the environment.

### 12.2 Persistence and Degradability:

Biodegradability: No data available.

### 12.3 Bioaccumulation:

Bioaccumulation: Information not available

### 12.4 Mobility in Soil:

Mobility in soil: No data available

### 12.5 Results of PBT and vPvB assessment

vPvB-substances: None - PBT Substances None

### 12.6 Other Harmful Effects:

None.

## **SECTION 13: Instructions for disposal**

### 13.1 Waste treatment methods:

Repair if possible. Observe the applicable local and national regulations.

## **SECTION 14: Information relating to carriage**

### 14.1 UN number

Not applicable.

### 14.2 Proper load name according to UN Model Regulations

Not applicable.

### 14.3 Transport hazard class(es)

Not applicable.

### 14.4 Packing group

Not applicable.

### 14.5 Environmental hazards

Not applicable.

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## 14.6 Special precautions for the user

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code  
Not applicable.  
No.

## **SECTION 15: Legally required information**

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

Dir. 98/24 / EC (Risks related to chemical agents at work)

Dir. 2000/39 / EC (occupational exposure limits)

Regulation (EC) No 1907/2006 (REACH)

Regulation (EC) No 1272/2008 (CLP)

Regulation (EC) 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) 2015/830

Regulation (EU) No 286/2011 (ATP 2 CLP)

Regulation (EU) No 618/2012 (ATP 3 CLP)

Regulation (EU) No 487/2013 (ATP 4 CLP)

Regulation (EU) No 944/2013 (ATP 5 CLP)

Regulation (EU) No 605/2014 (ATP 6 CLP)

Regulation (EU) No 2015/1221 (ATP 7 CLP)

Regulation (EU) 2016/918 (ATP 8 CLP)

Regulation (EU) 2016/1179 (ATP 9 CLP)

Regulation (EU) 2017/776 (ATP 10 CLP)

**Restrictions on the product or substances in Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent amendments:**

No

**Please refer to the following legal provisions, if applicable:**

Directive 2012/18 / EU (Seveso III)

Regulation (EC) No 648/2004 (detergents).

Dir. 2004/42 / EC (VOC Directive)

**Provisions relating to Directive EU 2012/18 (Seveso III):**

Seveso III category according to Annex 1, Part 1

**Product belongs to category:** None

### 15.2 Chemical safety assessment:

No chemical safety assessment has been carried out for the mixture.

## **SECTION 16: Other information**

### **Full text of the H statements**

H330 Fatal by inhalation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H315 Causes skin irritation.

H334 May cause allergic or asthmatic symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer.

H412 Harmful to aquatic life with long lasting effects.

### **Full text of other abbreviations**

Acute tox. 1	3.1 / 1 /	Acute toxicity by inhalation category 1
Skin Irrit. 2	3.2 / 2	Skin irritation, category 2
Eye Irrit. 2	3.3 / 2	Eye irritation, category 2
Resp. Sens.1,1A, 1B	3.4.1 / 1-1A-1B	Respiratory tract sensitisation, category 1,1A, 1B
Skin Sens.1,1A, 1B	3.4.2 / 1-1A-1B	Skin sensitisation, category 1,1A, 1B

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Carc. 2	3.6 / 2	Carcinogenicity category 2
STOT SE 3	3.8 / 3	Specific target organ toxicity by single exposure, Category 3
Aquatic Chronic 3	4.1 / C3	Chronic (long-term) aquatic hazard, Category 3

This Safety Data Sheet has been fully updated in accordance with Regulation 2015/830.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

## Classification according to Regulation (EC) No 1272/2008

### Classification procedure

Acute tox. 4, H332	Calculation method
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1A, H317	Calculation method

This document has been drawn up by a competent person who has undergone appropriate training.

Main bibliographical sources:

ECDIN - Data and Information Network on Environmental Chemicals - Joint Research Centre, Commission of the European Communities

THE DANGEROUS PROPERTY OF SAX FROM INDUSTRIAL MATERIALS - Eighth edition - Van Nostrand Reinold

The information contained in this document is based on our knowledge at the date specified above. It refers exclusively to the product specified and does not constitute a guarantee of any particular quality.

It is the user's duty to ensure that this information is appropriate and complete in relation to the specific intended use.

This MSDS cancels and replaces all previous releases.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute toxicity estimation
ATEmix:	Acute toxicity estimation (mixtures)
CAS:	Chemical Abstracts Service (Division of the American Chemical Society).
CLP:	classification, labelling, packaging.
DNEL:	Derived dose without effect.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally harmonised system for classification and labelling of chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the International Air Transport Association (IATA).
ICAO:	International Civil Aviation Organisation.
ICAO-TI:	Technical Instructions of the International Civil Aviation Organization (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Fatal concentration, for 50 percent of the test population.
LD50:	Lethal dose, for 50 percent of the test population.
PNEC:	Predicted no-effect concentration.
RID:	Regulation on the International Carriage of Dangerous Goods by Rail.
STEL:	Short-term exposure limit.
STOT:	Specific target organ toxicity.
TLV:	Threshold Limiting Value.
TWA:	time-weighted average
WGK:	German water hazard class.