

In accordance with directive 1907/2006/EC, 2020/878  
Version 3.0 Revision date: 05-12-2024  
Trade name: Polurea 40 A | GP 040 A

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

### 1.1 Product identification:

Product name: Polurea 40 A | GP 040 A  
UFI: JMV1-PRTR-G506-K7DH

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

Recommended use: Di-/poly-isocyanic component for the production of polyurethanes.  
Industrial use: Professional use.  
Uses advised against: Consumer use is not supported.

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

Responsible distributor : ASSYST bvba / A.S.O.W. bvba  
Hellegatstraat 13a  
2590 Berlaar  
Belgium  
Tel: +32 495 50 61 14 / +32 496 83 70 27  
Website: [www.assyst.org](http://www.assyst.org) / [www.artsuppliesonweb.com](http://www.artsuppliesonweb.com)  
Email: [ao@assyst.org](mailto:ao@assyst.org) / [vera.opsommer@assyst.org](mailto:vera.opsommer@assyst.org)

### 1.4 Emergency telephone number:

For Belgium: Call the **Poison Control Centre (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**.  
NHS 24 Direct 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 classified according to the applicable legislation.

**Classification in accordance with Regulation (EC) No 1272/2008 as amended.**

#### **Health hazards**

Resp. Sens. 1, May cause allergy or asthma symptoms or breathing difficulties if inhaled.

#### **Adverse physicochemical, human health and environmental effects:**

No other hazards

### 2.2 Label elements:

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



**Hazard pictograms:**

**Signal word**

DANGER.

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

✓ m-tolylidene diisocyanate

**Hazard statements:**

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Precautionary statements:**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

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P284 [In case of inadequate ventilation] wear respiratory protection.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor/...  
P501 Dispose of contents/container in accordance with applicable regulations.

**Special provisions:**

EUH204 Contains isocyanates. May cause allergic reaction.

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

As from 24 August 2023 adequate training is required before industrial or professional use.

2.3 Other hazards:

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**Ecological information:**

The substance/mixture does not contain any components believed to have endocrine disrupting properties, according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 on level 0.1% or higher.

**Toxicological information:**

The substance/mixture does not contain any components believed to have endocrine disrupting properties, according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 on level 0.1% or higher.

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

3.2 Mixtures:

**Description:**

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

Chemical Name	CAS No. EC No. Index No. Registration number	Layout (Regulation (EC) No 1272/008)	Concentration (%)
m-tolylidene diisocyanate	26471-62-5 247-722-4 615-006-00-4 01-2119454791-34	Acute Tox. 1 H330 Skin Irrit. 2 H315 Eye Irrit. 2 H319 Resp. Sens. 1 H334 Skin Sens. 1 H317 Carc. 2 H351 STOT SE 3 H335 Aquatic Chronic 3 H412  <u>Specific Concentration Limits:</u> C >= 0,1%: Resp. Sens. 1 H334 Acute Toxicity Estimate: ATE - Inhalation (Vapours) 0,235 mg/l	>= 0.25% - < 0.5%

For explanation of abbreviations see section 16.

**SECTION 4: First aid measures**

4.1 Description of first aid measures:

**In case of skin contact:**

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash with plenty of water and soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose of safely.

**In case of eye contact:**

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**In case of ingestion:**

Do not under any circumstances induce vomiting.

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OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

**In case of inhalation:**

Remove casualty to fresh air and keep warm and at rest.

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

None.

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

**Treatment:**

None.

**SECTION 5: Fire-fighting measures**

5.1 Extinguishing media:

**Suitable extinguishing media:**

CO2 or Dry chemical fire extinguisher.

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

None in particular.

5.2 Special hazards arising from the substance or mixture

Do not inhale explosion gases or combustion gases.

Burning produces heavy smoke.

5.3 Advice for firefighters:

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately.

This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

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

6.1 Personal precautions, protective equipment and emergency procedures:

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

6.2 Environmental precautions:

Do not allow to enter into soil/subsoil.

Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand.

6.3 Methods and material for containment and cleaning up

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 mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

See also section 8 for recommended protective equipment.

**Advice on general occupational hygiene:**

Wash hands after use.

Contaminated clothing should be changed before entering eating areas.

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Do not eat, drink or smoke when using this product.

#### 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.

#### **Incompatible materials:**

None in particular.

#### **Instructions as regards storage premises:**

Adequately ventilated premises.

#### 7.3 Specific end use:

None in particular.

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

#### 8.1 Control parameters:

No occupational exposure limit available

#### **DNEL exposure limits**

Not applicable.

#### **PNEC exposure limits**

Not applicable.

#### 8.2 Exposure controls:

##### **Eye protection:**

Wear safety goggles (ref. Standard EN 166).

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

Safety shoes.

Wear work clothes with long sleeves and safety footwear for professional category III use (ref. Regulation 425/2016 and standard EN 141).

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

Protect your hands with category III work gloves (ref. Regulation 425/2016 and standard EN 141).

##### **Respiratory protection:**

Use adequate respiratory protection device. (ref. Regulation 425/2016 - EN 141).

##### **Thermal hazards:**

None.

##### **Environmental exposure controls:**

Prevent from entering sewers, basements or any place where its accumulation can be dangerous.

##### **Appropriate technical measures:**

None.

### **SECTION 9: Physical and chemical properties**

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

Physical state:	Liquid
Colour:	Amber
Odour:	Characteristic
Melting point/freezing point:	Not Relevant
Boiling point or initial boiling point and boiling range:	> 300°C
Flammability:	Not Relevant
Lower and upper explosion limit:	Not Relevant
Flash point:	> 170°C
Auto-ignition temperature:	Not Relevant
Decomposition temperature:	Not Relevant
pH:	Not Relevant. The mixture reacts with water.
Kinematic viscosity:	Not Relevant
Solubility in water:	Insoluble

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Solubility in oil:	Not Relevant
Partition coefficient n-octanol/water (log value):	Not Relevant
Vapour pressure:	Not Relevant
Density and/or relative density:	1.02 g/ml
Relative vapour density:	Not Relevant
<b>Particle characteristics:</b>	
Particle size:	Not Relevant

## 9.2 Other information

No other relevant information

## **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.

### 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:**

m-tolylidene diisocyanate - CAS: 26471-62-5

##### **a) acute toxicity:**

ATE - Inhalation (Vapours) 0,235 mg/l

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.

### 11.2 Information on other hazards

#### **Hormone-disrupting properties**

Product:

#### **Rating:**

The substance/mixture does not contain any components believed to have endocrine disrupting properties, according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 on level 0.1% or higher.

#### **Further information:**

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Product:

**Comments:**

No data available

**SECTION 12: Ecological information**

12.1 Toxicity:

Adopt good working practices, so that the product is not released into the environment.

12.2 Persistence and Degradability:

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**Biodegradability:**

No data available.

12.3 Bioaccumulation:

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**Bioaccumulation:**

Information not available

12.4 Mobility in Soil:

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**Mobility in soil:**

No data available

12.5 Results of PBT and vPvB assessment

vPvB-substances: None - PBT Substances None

12.6 Hormone-disrupting properties

Product:

No endocrine disruptor substances present in concentration  $\geq 0.1\%$ .

12.7 Other Harmful Effects:

None.

**SECTION 13: Instructions for disposal**

13.1 Waste treatment methods:

Recover if possible.

In so doing, comply with the local and national regulations currently in force.

**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.

14.6 Special precautions for the user

Comments:

The carriage of dangerous goods, including loading and unloading, must be carried out in accordance with regulations by personnel who have received the necessary training;

The shipping classification(s) given herein are for information only, and based solely on the properties of the unpackaged material as described in this MSDS. Transport classifications may vary in terms of mode of transport, package size and variations in regional resp. national regulations.

14.7 Sea transport in bulk according to IMO instruments

Not applicable for product as delivered.

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## **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) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

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

Regulation (EU) n. 2020/878

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

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

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

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

Regulation (EU) n. 2018/669 (ATP 11 CLP)

Regulation (EU) n. 2018/1480 (ATP 13 CLP)

Regulation (EU) n. 2019/521 (ATP 12 CLP)

Regulation (EU) n. 2020/217 (ATP 14 CLP)

Regulation (EU) n. 2020/1182 (ATP 15 CLP)

Regulation (EU) n. 2021/643 (ATP 16 CLP)

Regulation (EU) n. 2021/849 (ATP 17 CLP)

Regulation (EU) n. 2022/692 (ATP 18 CLP)

### **Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:**

#### **Restrictions related to the product:**

Restriction 3

#### **Restrictions related to the substances contained:**

Restriction 74

Restriction 75

As from 24 August 2023 adequate training is required before industrial or professional use.

### **Where applicable, refer to the following regulatory provisions :**

Directive 2012/18/EU (Seveso III)

Regulation (EC) nr 648/2004 (detergents).

Dir. 2004/42/EC (VOC directive)

### **Provisions related to directive EU 2012/18 (Seveso III):**

Seveso III category according to Annex 1, part 1

None

### **15.2 Chemical safety assessment:**

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

### **Substances for which a Chemical Safety Assessment has been carried out:**

None.

## **SECTION 16: Other information**

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

H330 Fatal if inhaled.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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H317 May cause an allergic skin reaction.  
H351 Suspected of causing cancer.  
H335 May cause respiratory irritation.  
H412 Harmful to aquatic life with long lasting effects.

#### Full text of other abbreviations

Acute tox. 1	3.1 / 1 / Inhal.	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,	3.4.1 / 1	Respiratory sensitisation, category 1
Skin Sens. 1	3.4.2 / 1	Skin sensitisation, category 1
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

#### Paragraphs modified from the previous revision:

SECTION 1: Identification of the substance/mixture and of the company/undertaking  
SECTION 2: Hazards identification  
SECTION 3: Composition/information on ingredients  
SECTION 4: First aid measures  
SECTION 6: Accidental release measures  
SECTION 7: Handling and storage  
SECTION 8: Exposure controls/personal protection  
SECTION 9: Physical and chemical properties  
SECTION 11: Toxicological information  
SECTION 12: Ecological information  
SECTION 13: Disposal considerations  
SECTION 15: Regulatory information  
SECTION 16: Other information

This safety data sheet has been completely updated in compliance to Regulation 2020/878.

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
Resp. Sens. 1, H334	Calculation method

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

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

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition – Van Nostrand Reinold.

The information contained herein is based on our state of knowledge at the above-specified date.

It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.  
ATE: Acute Toxicity Estimate  
ATEmix: Acute toxicity Estimate (Mixtures)  
CAS: Chemical Abstracts Service (division of the American Chemical Society).

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CLP:	Classification, Labelling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of 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 Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport 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.