

SAFETY DATA SHEET

In accordance with directive 1907/2006/EC, 2020/878

Version 3.0

Revision date: 05-12-2024

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Print date: 9-12-2024

Trade name: Polurea 40 B | IGP 040 B

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

1.1 Product identification:

Product name: Polurea 40 B | IGP 040 B

UFI: MHG8-YPA6-R50H-TNV6

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

Recommended use: Reactive component for the production of polyurethanes.
Use at industrial sites; use in coatings, adhesives and sealants.
Dispersive use by professional workers; use in coatings, adhesives and sealants.
Consumer use is not supported

Uses advised against:

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 / www.artsuppliesonweb.com
Email: ao@assyst.org / 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**.
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.

NHS 24 Direct

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

Aquatic Chronic 2, Toxic to aquatic life with long lasting effects.

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:

Signal word: Warning.

Hazard statements:

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

P273 Avoid release to the environment.

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P391 Collect spillages.

P501 Dispose of contents/container in accordance with applicable regulations.

Special provisions:

None.

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

None.

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 (%)
Dipropylene glycol, dibenzoate	27138-31-4 248-258-5 - 01-2119529241-49	Aquatic Chronic 3 H412	>= 80%
Diethylmetilbenzendiamina	68479-98-1 270-877-4 612-130-00-0 01-2119486805-25	Acute Tox. 4 H312 Acute Tox. 4 H302 Eye Irrit. 2 H319 STOT RE 2 H373 Aquatic Acute 1 H400 Aquatic Chronic 1 H410	>= 5% - < 10%

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:

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.

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:

Treatment:

None.

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SECTION 5: Fire-fighting measures

5.1 Extinguishing media:

Suitable extinguishing media:

In case of fire, use a dry powder fire extinguisher to extinguish.

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 respiratory equipment.

Collect contaminated 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 protective equipment.

Remove persons to safety.

See protective measures under points 7 and 8.

6.2 Environmental precautions:

Do not allow to enter soil/subsoil.

Do not allow to enter surface water or the sewage system.

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:

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

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.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters:

No occupational exposure limit available

DNEL exposure limits

Dipropylene glycol, dibenzoate - CAS: 27138-31-4

Worker Industry: 8.8 mg/m³ - Consumer: 8.69 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 35.08 mg/m³ - Consumer: 8.7 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Industry: 10 07 - Consumer: 2.50 07 - Exposure: Human Dermal - Frequency: Long Term, systemic effects - Notes: bw/day

Worker Industry: 170 07 - Consumer: 80 07 - Exposure: Human Dermal - Frequency: Short Term, systemic effects - Notes: bw/day

DIETHYLMETHYLBENZENEDIAMINE - CAS: 68479-98-1

Consumer: 0.100 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Worker Industry: 1.000 mg/kg - Consumer: 1.000 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 0.130 mg/m³ - Consumer: 0.100 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

PNEC exposure limits

Dipropylene glycol, dibenzoate - CAS: 27138-31-4

Target: Fresh Water - Value: 0.02 mg/l

Target: Marine water - Value: 0.002 mg/l

Target: Freshwater sediments - Value: 8.03 mg/kg

Target: Marine water sediments - Value: 0.803 mg/kg

Target: 08 - Value: 1 mg/kg

DIETHYLMETHYLBENZENEDIAMINE - CAS: 68479-98-1

Target: Freshwater sediments - Value: 29.000 mg/kg

Target: Marine water sediments - Value: 2.900 mg/kg

Target: Fresh Water - Value: 0.500 mg/m³

Target: Marine water - Value: 0.050 mg/m³

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 engineering controls:

None

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Appearance:

Liquid

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Colour:	Pale yellow
Odour:	Low
Melting point/freezing point:	Not Relevant
Boiling point or initial boiling point and boiling range:	> 200°C
Flammability:	Not Relevant
Lower and upper explosion limit:	Not Relevant
Flash point:	> 100°C
Auto-ignition temperature:	Not Relevant
Decomposition temperature:	Not Relevant
pH:	Not Relevant. The mixture is not soluble in water.
Kinematic viscosity:	Not Relevant
Solubility in water:	Insoluble
Solubility in oil:	Not Relevant
Partition coefficient n-octanol/water (log value):	Not Relevant
Vapour pressure:	Not Relevant
Density and/or relative density:	Not Relevant
Relative vapour density:	Not Relevant
Particle characteristics:	
Particle size:	Not Relevant
<u>9.2 Other information</u>	
Viscosity:	Not Relevant

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:

Dipropylene glycol, dibenzoate - CAS: 27138-31-4

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 3.914 mg/kg

Test: LD50 - Route: Skin - Species: Rat > 2.000 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat > 200 mg/l - Duration: 4h

DIETHYLMETHYLBENZENEDIAMINE - CAS: 68479-98-1

a) acute toxicity:

Test: LD50 - Route: Skin - Species: Rat > 2.000 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 2.000 mg/kg

i) STOT-repeated exposure:

Route: Oral - Species: Rat 4 4 mg/kg

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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:

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.

Dipropylene glycol, dibenzoate - CAS: 27138-31-4

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 3.7 mg/l - Duration h: 96

e) Plant toxicity:

Endpoint: ELC50 - Species: Algae = 0.95 mg/l - Duration h: 96

Endpoint: EC50 - Species: FA > 100 mg/l

h) Acute Daphnia Toxicity::

Endpoint: ELC50 - Species: Daphnia = 19.3 mg/l - Duration h: 48

i) Chronic Daphnia toxicity:

Endpoint: NOEC - Species: Daphnia = 2.2 mg/l

DIETHYLMETHYLBENZENEDIAMINE - CAS: 68479-98-1

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 104 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 5.8 mg/l - Duration h: 48

Endpoint: IC50 - Species: Algae = 104 mg/l - Duration h: 72

Endpoint: LC50 - Species: Daphnia = 0.5 mg/l - Duration h: 48

c) Bacteria toxicity:

Endpoint: EC50 - Species: BATTERI = 170 mg/l - Duration h: 24

12.2 Persistence and Degradability:

IGP 040 B

Biodegradability:

No data available.

Dipropylene glycol, dibenzoate - CAS: 27138-31-4

Biodegradability:

Easily biodegradable.

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DIETHYLMETHYLBENZENEDIAMINE - CAS: 68479-98-1

Biodegradability:

Non-readily biodegradable

12.3 Bioaccumulation:

IGP 040 B

Bioaccumulation:

Information not available

Dipropylene glycol, dibenzoate - CAS: 27138-31-4

Bioaccumulation:

Not bioaccumulative

DIETHYLMETHYLBENZENEDIAMINE - CAS: 68479-98-1

Bioaccumulation:

Shortly bioaccumulative.

12.4 Mobility in Soil:

IGP 040 B

Mobility in soil:

No data available

Dipropylene glycol, dibenzoate - CAS: 27138-31-4

Mobility in soil:

No data available

DIETHYLMETHYLBENZENEDIAMINE - CAS: 68479-98-1

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

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

ADR-UN number: 3082

IATA-Un number: 3082

IMDG-Un number: 3082

14.2 Proper load name according to UN Model Regulations

ADR-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S. (diethylmethylbenzenediamine)

IATA-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S. (diethylmethylbenzenediamine)

IMDG-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S. (diethylmethylbenzenediamine)

14.3 Transport hazard class(es)

ADR-Class: 9

IATA-Class: 9

IATA-Label: 9

IMDG-Class: 9

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14.4 Packing group

ADR-Packing Group: III

IATA-Packing group: III

IMDG-Packing group: III

14.5 Environmental hazards

Marine pollutant: Marine pollutant

IMDG-EMS: F-S,S-F

14.6 Special precautions for the user

IMDG-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S. (diethylmethylbenzenediamine)

14.7 Sea transport in bulk according to IMO instruments

Not applicable for product as delivered.

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 limit values)

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 75

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

Product belongs to category: E2

15.2 Chemical safety assessment:

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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

H412 Harmful to aquatic life with long lasting effects.

H312 Harmful in contact with skin.

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

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.

Full text of other abbreviations

Acute Tox. 4	3.1/4/Dermal	Acute toxicity (dermal), Category 4
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
STOT RE 2	3.9/2	Specific target organ toxicity – repeated exposure, Category 2
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1
Aquatic Chronic 2	4.1/C2	Chronic (long term) aquatic hazard, category 2
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 5: Firefighting 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 14: Transport information

SECTION 15: Regulatory 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

Aquatic Chronic 2,

H411

Classification procedure

Method of calculation

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.

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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).
CLP:	Classification, Labeling, 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 Labeling 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.