

1. Identification of the substrate/mixture and of the company/undertaking

1.1 Product Identifier

Product form: Mixture
Trade name: DANCURE 246-06
UFI: WXX3-YMJQ-H107-VS2D
Product group: Trade product

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

Main use category: Industrial use
Use of the substance/mixture: Urethane Prepolymers (Ethyl acetate)

1.3 Company identification

Company:

DANQUINSA GmbH
Störrenstrasse 30
D-72135 Dettenhausen
Germany

Phone: +49 (0)7157/5225-0
Fax: +49 (0)7157/5225-22
E-mail: info@danquinsa.de

1.4 Emergency information

Phone: +49 (0)7157/5225-0
(during working hours)

2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, Category 2	H225
Serious eye damage/eye irritation, Category 2	H319
Respiratory sensitisation, Category 1	H334
Skin sensitisation, Category 1	H317
Carcinogenicity, Category 2	H351
Specific target organ toxicity — Single exposure, Category 3, Narcosis	H336

Full text of H statements: see section 16

Adverse physicochemical, human health and environmental effects

Highly flammable liquid and vapour. Suspected of causing cancer. May cause drowsiness or dizziness. May cause an allergic skin reaction. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause damage to organs through prolonged or repeated exposure.

2.2 Labels elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS02



GHS07



GHS08

Signal word (CLP):

Danger

Contains:

ethyl acetate; isocyanic acid, polymethylenepolyphenylene ester; benzene, 2,4-diisocyanato-1-methyl-, homopolymer; 4-isocyanatosulphonyltoluene; m-tolylidene diisocyanat

Hazard statements (CLP):

H225 - Highly flammable liquid and vapour.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

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

H336 - May cause drowsiness or dizziness.

H351 - Suspected of causing cancer.

Precautionary statements (CLP):

P201 - Obtain special instructions before use.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P261 - Avoid breathing vapours.

P280 - Wear protective clothing, eye protection, face 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.

EUH-statements:

EUH014 - Reacts violently with water.

EUH066 - Repeated exposure may cause skin dryness or cracking.

Extra phrases:

*** EU 2020/1149: As from 24 August 2023 adequate training is required before industrial or professional use. <http://www.safeusediisocyanates.eu> *** |.

2.3 Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %.

3. Composition/information on ingredients

3.2 Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Ethyl acetate substance with a Community workplace exposure limit	CAS-No.: 141-78-6 EC-No.: 205-500-4 EC Index-No.: 607-022-00-5 REACH-no: 01-2119475103-46	50 – 80	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066
isocyanic acid, polymethylenepolyphenylene ester	CAS-No.: 9016-87-9 EC-No.: 618-498-9	1 – 5	Acute Tox. 4 (Inhalation), H332 (ATE=11 mg/l/4h) 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

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
benzene, 2,4-diisocyanato-1-methyl-, homopolymer	CAS-No.: 26006-20-2 EC-No.: 607-844-4	1 – 5	Eye Irrit. 2, H319 Skin Sens. 1, H317
4-isocyanatosulphonyltoluene	CAS-No.: 4083-64-1 EC-No.: 223-810-8 EC Index-No.: 615-012-00-7	0,1 – 1	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 STOT SE 3, H335 EUH014
m-tolylidene diisocyanat	CAS-No.: 26471-62-5 EC-No.: 247-722-4 EC Index-No.: 615-006-00-4 REACH-no: 01-2119454791-34	< 0,1	Acute Tox. 2 (Inhalation), H330 (ATE=0,5 mg/l/4h) 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

Specific concentration limits

Name	Product identifier	Specific concentration limits
isocyanic acid, polymethylenepolyphenylene ester	CAS-No.: 9016-87-9 EC-No.: 618-498-9	(0,1 ≤ C < 100) Resp. Sens. 1; H334 (5 ≤ C < 100) Eye Irrit. 2; H319 (5 ≤ C < 100) Skin Irrit. 2; H315 (5 ≤ C < 100) STOT SE 3; H335
4-isocyanatosulphonyltoluene	CAS-No.: 4083-64-1 EC-No.: 223-810-8 EC Index-No.: 615-012-00-7	(5 ≤ C ≤ 100) Skin Irrit. 2; H315 (5 ≤ C ≤ 100) STOT SE 3; H335 (5 ≤ C ≤ 100) Eye Irrit. 2; H319
m-tolylidene diisocyanat	CAS-No.: 26471-62-5 EC-No.: 247-722-4 EC Index-No.: 615-006-00-4 REACH-no: 01-2119454791-34	(0,1 ≤ C ≤ 100) Resp. Sens. 1; H334

Full text of H-statements: see section 16

4. First aid measures**4.1 Description of first aid measures****First-aid measures general:**

If exposed or concerned: Get medical advice/attention. Call a poison center or a doctor if you feel unwell.

First-aid measures after inhalation:

Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or a doctor.

First-aid measures after skin contact:

Rinse skin with water/shower. Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion:

Call a poison center or a doctor if you feel unwell.

First-aid measures for first aider:

First aid workers will be equipped with suitable personal protective equipment.

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

May cause drowsiness or dizziness. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.

Symptoms/effects after inhalation:

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

Symptoms/effects after skin contact:

May cause an allergic skin reaction.

Symptoms/effects after eye contact:

Causes serious eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media:

Do not use a heavy water stream.

5.2 Special hazards arising from the substance or mixture

Fire hazard:

Highly flammable liquid and vapour.

Hazardous decomposition products in case of fire:

Toxic fumes may be released. Carbon oxides (CO, CO₂).

5.3 Advice for fire-fighters

Firefighting instructions:

Do not enter fire area without proper protective equipment, including respiratory protection.

Protection during firefighting:

Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

General measures:

Stop leak if safe to do so. Notify authorities if product enters sewers or public waters.

Absorb spillage to prevent material damage.

For non-emergency personnel

Protective equipment:

Wear recommended personal protective equipment.

Emergency procedures:

Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes. Do not breathe vapours.

For emergency responders

Protective equipment:

Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures:

Evacuate unnecessary personnel. Stop leak if safe to do so.

6.2 Environmental precautions

Avoid release to the environment.

6.3 Methods and material for containment and cleaning up

For containment:

Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.

Methods for cleaning up:

Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

Other information:

Dispose of materials or solid residues at an authorized site.

6.4 Reference to other sections

For further information refer to section 13. See Section 8.

7. Handling and storage

7.1 Precautions for safe handling

Precautions for safe handling:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. Do not breathe vapours. Protect from moisture.

Hygiene measures:

Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures:

Ground/bond container and receiving equipment.

Storage conditions:

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up. Protect from moisture. Store in a dry place. Store in a closed container.

Incompatible products:

Strong acids. Strong bases.

Packaging materials:

Store always product in container of same material as original container.

7.3 Specific end use(s)

See Section 1.

8. Exposure controls / personal protection

8.1 Control parameters

National occupational exposure and biological limit values

ethyl acetate (141-78-6)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Ethyl acetate
IOEL TWA	734 mg/m ³
	200 ppm
IOEL STEL	1468 mg/m ³
	400 ppm
Regulatory reference	COMMISSION DIRECTIVE (EU) 2017/164

ethyl acetate (141-78-6)	
United Kingdom - Occupational Exposure Limits	
Local name	Ethyl acetate
WEL TWA (OEL TWA)	734 mg/m ³
	200 ppm
WEL STEL (OEL STEL)	1468 mg/m ³
	400 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

DNEL and PNEC

ethyl acetate (141-78-6)	
DNEL/DMEL (Workers)	
Acute - systemic effects, inhalation	1468 mg/m ³
Acute - local effects, inhalation	1468 mg/m ³
Long-term - systemic effects, dermal	63 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	734 mg/m ³
Long-term - local effects, inhalation	734 mg/m ³
DNEL/DMEL (General population)	
Acute - systemic effects, inhalation	734 mg/m ³
Acute - local effects, inhalation	734 mg/m ³
Long-term - systemic effects, oral	4,5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	367 mg/m ³
Long-term - systemic effects, dermal	37 mg/kg bodyweight/day
Long-term - local effects, inhalation	367 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	0,24 mg/l
PNEC aqua (marine water)	0,024 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	1,15 mg/kg dwt
PNEC sediment (marine water)	0,115 mg/kg dwt
PNEC (Soil)	
PNEC soil	0,148 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	650 mg/l

m-tolylidene diisocyanat (26471-62-5)	
DNEL/DMEL (Workers)	
Acute - systemic effects, inhalation	0,14 mg/m ³
Acute - local effects, inhalation	0,14 mg/m ³
Long-term - systemic effects, inhalation	0,035 mg/m ³
Long-term - local effects, inhalation	0,035 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	0,013 mg/l
PNEC aqua (marine water)	0,001 mg/l
PNEC aqua (intermittent, freshwater)	0,125 mg/l
PNEC (Soil)	
PNEC soil	1 mg/l
PNEC (STP)	
PNEC sewage treatment plant	1 mg/l

8.2 Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protective equipment:

Avoid all unnecessary exposure.

Personal protective equipment symbol(s):



Eye and face protection:

Eye protection:

Safety glasses (ISO 16321-1: 2016).

Skin protection

Skin and body protection:

Boots / antistatic boots (Flammable materials). Normal overalls / Antistatic clothing (Flammable materials)

Hand protection:

Chemically resistant protective gloves (EN 388: 2016, ISO 374-1: 2016)

Respiratory protection:

Standard EN 14387 - Gas filter(s), combined filter(s) and full face mask - EN 136. Filter type: Filter A (brown) (Organic Substances Boiling point > 65°C) / Filter K (green) (Ammonia solution, Amines) / Filter P (white) (particulates and dust, Aerosols). [In case of inadequate ventilation] wear respiratory protection.

Environmental exposure controls:

Avoid release to the environment.

Other information:

Do not eat, drink or smoke during use.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	Yellow.
Appearance:	Transparent.
Odour:	characteristic.
Odour threshold:	Not available
Melting point:	Not applicable
Freezing point:	Not available
Boiling point:	≈ 78 °C
Flammability:	Highly flammable liquid and vapour.
Lower explosion limit:	Not available
Upper explosion limit:	Not available
Flash point:	≈ 1 °C
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
pH:	substance/mixture is non-soluble (in water)
Viscosity, kinematic:	Not available
Viscosity, dynamic:	5 – 10 mPa·s (25 °C)
Solubility:	insoluble in water. Reacts with water.
Partition coefficient n-octanol/water (Log Kow):	Not available
Vapour pressure:	Not available
Vapour pressure at 50 °C:	Not available
Density:	1,15 – 1,19 g/cm ³ (20 °C)
Relative density:	Not available
Relative vapour density at 20 °C:	Not available
Particle characteristics:	Not applicable

9.2 Other information

Other safety characteristics

VOC content: ≈ 71,5 %

10. Stability and reactivity

10.1 Reactivity

Highly flammable liquid and vapour. Reacts violently with water.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4 Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition. Water, humidity.

10.5 Incompatible materials Section 7.2.

10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral):

Not classified (Based on available data, the classification criteria are not met)

Acute toxicity (dermal):

Not classified (Based on available data, the classification criteria are not met)

Acute toxicity (inhalation):

Not classified (Based on available data, the classification criteria are not met)

ethyl acetate (141-78-6)	
LD50 oral	4934 mg/kg
LD50 dermal rabbit	> 20000

isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)	
LD50 oral rat	> 10000 mg/kg
LD50 dermal rabbit	> 9400 mg/kg

m-tolylidene diisocyanat (26471-62-5)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg

Skin corrosion/irritation:

Not classified (Based on available data, the classification criteria are not met)

pH: substance/mixture is non-soluble (in water)

Serious eye damage/irritation:

Causes serious eye irritation.

pH: substance/mixture is non-soluble (in water)

Respiratory or skin sensitisation:

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

Germ cell mutagenicity:

Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity:

Suspected of causing cancer.

isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)	
IARC group	3 - Not classifiable

m-tolylidene diisocyanat (26471-62-5)	
IARC group	2B - Possibly carcinogenic to humans

Reproductive toxicity: Not classified (Based on available data, the classification criteria are not met)

STOT-single exposure: May cause drowsiness or dizziness.

ethyl acetate (141-78-6)	
STOT-single exposure	May cause drowsiness or dizziness.

isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)	
STOT-single exposure	May cause respiratory irritation.

4-isocyanatosulphonyltoluene (4083-64-1)	
STOT-single exposure	May cause respiratory irritation.

m-tolylidene diisocyanat (26471-62-5)	
STOT-single exposure	May cause respiratory irritation.

STOT-repeated exposure: Not classified (Based on available data, the classification criteria are not met)

isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard: Not classified (Based on available data, the classification criteria are not met)

ethyl acetate (141-78-6)	
Viscosity, kinematic	≈ 0,669 mm²/s

isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)	
Viscosity, kinematic	≥ 161,551 mm²/s

m-tolylidene diisocyanat (26471-62-5)	
Viscosity, kinematic	≈ 2,459 mm²/s

11.2 Information on other hazards

Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties:

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

12. Ecological information

12.1 Toxicity

Ecology - general:

The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short-term (acute):

Not classified (Based on available data, the classification criteria are not met)

Hazardous to the aquatic environment, long-term (chronic):

Not classified (Based on available data, the classification criteria are not met)

ethyl acetate (141-78-6)	
LC50 - Fish [1]	230 mg/l
ErC50 algae	5600 mg/l
NOEC chronic crustacea	2,4 mg/l
NOEC chronic algae	< 100 mg/l

isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)	
LC50 - Fish [1]	> 1000 mg/l 96h
EC50 - Crustacea [1]	> 1000 mg/l 48h
ErC50 algae	> 1640 mg/l
NOEC chronic crustacea	> 10 mg/l

m-tolylidene diisocyanat (26471-62-5)

ErC50 algae	3230 mg/l
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12.2 Persistence and degradability

DANCURE 246-06

Persistence and degradability	No information available.
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ethyl acetate (141-78-6)

Persistence and degradability	Rapidly degradable
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isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)

Persistence and degradability	Not rapidly degradable
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benzene, 2,4-diisocyanato-1-methyl-, homopolymer (26006-20-2)

Persistence and degradability	Rapidly degradable
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4-isocyanatosulphonyltoluene (4083-64-1)

Persistence and degradability	Not rapidly degradable
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m-tolylidene diisocyanat (26471-62-5)

Persistence and degradability	Not rapidly degradable
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12.3 Bioaccumulative potential

No additional information available.

12.4 Mobility in soil

No additional information available.

12.5 Results of PBT and vPvB assessment

DANCURE 246-06

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
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12.6 Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties:

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %.

12.7 Other adverse effects

No additional information available.

13. Disposal considerations

13.1 Waste treatment methods

Regional waste regulation:

Disposal must be done according to official regulations.

Waste treatment methods:

Dispose of contents/container in accordance with licensed collector's sorting instructions.

Sewage disposal recommendations:

Disposal must be done according to official regulations.

Product/Packaging disposal recommendations:

Disposal must be done according to official regulations.

Additional information:

Flammable vapours may accumulate in the container. Do not re-use empty containers.

14. Transport information

In accordance with ADR / IMDG / IATA / RID

ADR	IMDG	IATA	RID
14.1. UN number or ID number			
1866	1866	1866	1866
14.2. UN proper shipping name			
RESIN SOLUTION (ethyl acetate ; DIPHENYLMETHAN- DIISOCYANA TE, ISOMERS AND HOMOLOGUES ; Toluene diisocyanate polymer ; 4,4'- methylenediphenyl diisocyanate, diphenylmethane-4,4'- diisocyanate ; ethyl acetate)	RESIN SOLUTION (ethyl acetate ; DIPHENYLMETHAN- DIISOCYANA TE, ISOMERS AND HOMOLOGUES ; Toluene diisocyanate polymer ; 4,4'- methylenediphenyl diisocyanate, diphenylmethane-4,4'- diisocyanate ; ethyl acetate)	RESIN SOLUTION (ethyl acetate ; DIPHENYLMETHAN- DIISOCYANA TE, ISOMERS AND HOMOLOGUES ; Toluene diisocyanate polymer ; 4,4'- methylenediphenyl diisocyanate, diphenylmethane-4,4'- diisocyanate ; ethyl acetate)	RESIN SOLUTION (ethyl acetate ; DIPHENYLMETHAN- DIISOCYANA TE, ISOMERS AND HOMOLOGUES ; Toluene diisocyanate polymer ; 4,4'- methylenediphenyl diisocyanate, diphenylmethane-4,4'- diisocyanate ; ethyl acetate)
Transport document description			
UN 1866 RESIN SOLUTION (ethyl acetate ; DIPHENYLMETHAN- DIISOCYANA TE, ISOMERS AND HOMOLOGUES ; Toluene diisocyanate polymer ; 4,4'- methylenediphenyl diisocyanate, diphenylmethane-4,4'- diisocyanate ; ethyl acetate), 3, II, (D/E)	UN 1866 RESIN SOLUTION (ethyl acetate ; DIPHENYLMETHAN- DIISOCYANA TE, ISOMERS AND HOMOLOGUES ; Toluene diisocyanate polymer ; 4,4'- methylenediphenyl diisocyanate, diphenylmethane-4,4'- diisocyanate ; ethyl acetate), 3, II	UN 1866 Resin solution (ethyl acetate ; DIPHENYLMETHAN- DIISOCYANA TE, ISOMERS AND HOMOLOGUES ; Toluene diisocyanate polymer ; 4,4'- methylenediphenyl diisocyanate, diphenylmethane-4,4'- diisocyanate ; ethyl acetate), 3, II	UN 1866 RESIN SOLUTION (ethyl acetate ; DIPHENYLMETHAN- DIISOCYANA TE, ISOMERS AND HOMOLOGUES ; Toluene diisocyanate polymer ; 4,4'- methylenediphenyl diisocyanate, diphenylmethane-4,4'- diisocyanate ; ethyl acetate), 3, II
14.3. Transport hazard class(es)			
3	3	3	3
			
14.4. Packaging group			
II	II	II	II
14.5. Environmental hazards			
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No EmS-No. (Fire): F-E EmS-No. (Spillage): S-E	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available			

14.6 Special precautions for user

- Overland transport

Special provisions (ADR):

640D

Limited quantities (ADR):

5L

Excepted quantities (ADR):

E2

Packing instructions (ADR):

P001, IBC02, R001

Special packing provisions (ADR):

PP1

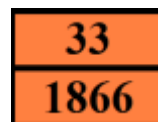
Transport category (ADR):

2

Hazard identification number (Kemler No.):

33

Orange plates:



Tunnel restriction code (ADR):

D/E

EAC code:

•3YE

- Transport by sea

Limited quantities (IMDG):	5L
Excepted quantities (IMDG):	E2
Packing instructions (IMDG):	P001
Special packing provisions (IMDG):	PP1

- Air transport

PCA Excepted quantities (IATA):	E2
PCA Limited quantities (IATA):	Y341
PCA limited quantity max net quantity (IATA):	1L
PCA packing instructions (IATA):	353
PCA max net quantity (IATA):	5L
CAO packing instructions (IATA):	364
CAO max net quantity (IATA):	60L
Special provisions (IATA):	A3

- Rail transport

Special provisions (RID):	640D
Limited quantities (RID):	5L
Excepted quantities (RID):	E2
Packing instructions (RID):	P001, IBC02, R001
Special packing provisions (RID):	PP1
Transport category (RID):	2
Hazard identification number (RID):	33

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substances or mixture

EU-Regulations

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3(a)	; ethyl acetate	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F
3(b)	; ethyl acetate ; isocyanic acid, polymethylenepolyphenyl ene ester ; benzene, 2,4-diisocyanato-1-methyl-, homopolymer ; 4-isocyanatosulphonyltoluene ; m-tolyldiene diisocyanat	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10
3(c)	m-tolyldiene diisocyanat	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1
40.	ethyl acetate	Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.
74.	isocyanic acid, polymethylenepolyphenyl ene ester ; m-tolyldiene diisocyanat	

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

VOC Directive (2004/42)

VOC content: $\approx 71,5 \%$

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.2 Chemical safety assessment

No chemical safety assessment has been carried out

For the following substances of this mixture a chemical safety assessment has been carried out:

ethyl acetate

m-tolylidene diisocyanate

16. Other information

Indication of changes:

Section	Changed item	Comments
	Issue date	Modified
	Revision date	Modified
	Regulatory reference	Added
1	Identification of the substance/mixture and of the company/undertaking	Modified
2	Hazards identification	Modified
3	Composition/information on ingredients	Modified
4	First aid	Modified
5	Fire fighting measures	Modified
6	Accidental release measures	Modified
7	Handling and Storage	Modified

7	Handling and Storage	Modified
8	Exposure controls/personal protection	Modified
9	Physical and chemical properties	Modified
10	Stability and reactivity	Modified
11	Toxicological information	Modified
12	Ecological information	Modified
13	Disposal considerations	Modified
14	Transport information	Modified
15	Regulatory information	Modified
16	Other information	Modified

Abbreviations and acronyms:

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
vPvB	Very Persistent and Very Bioaccumulative
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
BLV	Biological limit value
EC-No.	European Community number
EN	European Standard
IARC	International Agency for Research on Cancer
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
SDS	Safety Data Sheet
CAS-No.	Chemical Abstract Service number

Data sources:

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. SDS EU format according to COMMISSION REGULATION (EU) 2020/878.

Other information:

Refer to the safety data sheet before handling or disposing.

Full text of H- and EUH-statements:

Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Carc. 2	Carcinogenicity, Category 2
EUH014	Reacts violently with water.
EUH066	Repeated exposure may cause skin dryness or cracking.
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes 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.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.
Resp. Sens. 1	Respiratory sensitisation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis
Resp. Sens. 1	Respiratory sensitisation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis

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

Flam. Liq. 2	H225	On basis of test data
Eye Irrit. 2	H319	Calculation method
Resp. Sens. 1	H334	Calculation method
Skin Sens. 1	H317	Calculation method
Carc. 2	H351	Calculation method
STOT SE 3	H336	Calculation method

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product. This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses. Provide appointed staff with adequate training on how to use chemical products.



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