



Azo Grout 675

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 11/25/2024 Revision date: 2/12/2026 Supersedes version of: 12/5/2024 Version: 1.2

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

1.1. Product identifier

Product form : Mixture
Trade name : Azo Grout 675

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

Relevant identified uses

Use of the substance/mixture : Water stop

1.3. Details of the supplier of the safety data sheet

Supplier

Azon USA Inc.
2204 Ravine Rd
49004, Kalamazoo, Michigan
USA
T 269-385-5942

Responsible Person

KÖSTER BAUCHEMIE AG
Dieselstraße 1 – 10
26607 Aurich
Germany
T +49 4941 9709-51

Responsible Person

WFP GmbH
Drescherstraße 49
D-71277 Rutesheim
Germany
T +49 (0) 7152-30 03 30

1.4. Emergency telephone number

Emergency number : For 24/7 multilingual advice for spill, leak, fire, exposure, or accident call CHEMTREC at 0800 1817059 (Local, German) and provide CCN 2189
Back-up Emergency Number: +44 20 3885 0382 (London, multilingual) +1-703-527-3887 (United States, answered in English, request other languages)

Country/Area	Organisation	Emergency number
Germany	Klinik für Intensiv- und Notfallmedizin, Klinikum Nürnberg. Institut für Biomedizin des Alterns, Universität Erlangen-Nürnberg. Professor-Ernst-Nathan-Straße 1 90419.	+49 (0) 911 398 2451

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Acute toxicity (inhalation:dust,mist) Category 4 H332
Skin corrosion/irritation, Category 2 H315
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, H335
Respiratory tract irritation

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Suspected of causing cancer. Harmful if inhaled. May cause respiratory irritation. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP)

: Danger

Contains

: 4,4'-Methylenediphenyl diisocyanate; Toluene-diisocyanate (mixed isomers); 4-Isocyanatosulphonyltoluene; 2,4'-Diphenylmethane Diisocyanate (MDI); 2,2'-Diphenylmethane Diisocyanate; Diphenylmethane Diisocyanate, isomers and homologues

Hazard statements (CLP)

: 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.

Precautionary statements (CLP)

: P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P261 - Avoid breathing mist, spray, vapours, gas.
P264 - Wash hands, forearms and face thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P272 - Contaminated work clothing should not be allowed out of the workplace.

Extra phrases

: 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.
As from 24 August 2023 adequate training is required before industrial or professional use.
8.99% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)
47.98% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)

Unknown acute toxicity (GHS EU) - SDS

2.3. Other hazards

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

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	4,4'-Methylenediphenyl diisocyanate (101-68-8), 2,4'-Diphenylmethane Diisocyanate (MDI) (5873-54-1)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	4,4'-Methylenediphenyl diisocyanate (101-68-8), 2,4'-Diphenylmethane Diisocyanate (MDI) (5873-54-1)

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 %

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Dimethyl Glutarate	CAS-No.: 1119-40-0 EC-No.: 214-277-2	14 – 22	Eye Irrit. 2, H319
Dimethyl Adipate	CAS-No.: 627-93-0 EC-No.: 211-020-6	1.5 – 7.5	Eye Irrit. 2, H319
Dimethyl Succinate	CAS-No.: 106-65-0 EC-No.: 203-419-9	1.5 – 7.5	Eye Irrit. 2, H319
4,4'-Methylenediphenyl diisocyanate	CAS-No.: 101-68-8 EC-No.: 202-966-0 EC Index-No.: 615-005-00-9	1 – 5	Acute Tox. 4 (Inhalation), 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
Diphenylmethane Diisocyanate, isomers and homologues	CAS-No.: 9016-87-9	1 – 5	Acute Tox. 4 (Inhalation:dust,mist), 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
Toluene-diisocyanate (mixed isomers)	CAS-No.: 26471-62-5 EC-No.: 247-722-4 EC Index-No.: 615-006-00-4	0.5 – 2	Acute Tox. 2 (Inhalation), 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
2,4'-Diphenylmethane Diisocyanate (MDI)	CAS-No.: 5873-54-1 EC-No.: 227-534-9 EC Index-No.: 615-005-00-9	0.1 – 1	Acute Tox. 4 (Inhalation), 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
4-Isocyanatosulphonyltoluene	CAS-No.: 4083-64-1 EC-No.: 223-810-8 EC Index-No.: 615-012-00-7	> 0.6	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 STOT SE 3, H335 Aquatic Chronic 3, H412

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2,2'-Diphenylmethane Diisocyanate	CAS-No.: 2536-05-2 EC-No.: 219-799-4 EC Index-No.: 615-005-00-9	0.007 – 0.067	Acute Tox. 4 (Inhalation), 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

Specific concentration limits:

Name	Product identifier	Specific concentration limits (%)
4,4'-Methylenediphenyl diisocyanate	CAS-No.: 101-68-8 EC-No.: 202-966-0 EC Index-No.: 615-005-00-9	(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
Toluene-diisocyanate (mixed isomers)	CAS-No.: 26471-62-5 EC-No.: 247-722-4 EC Index-No.: 615-006-00-4	(0.1 ≤ C ≤ 100) Resp. Sens. 1; H334
2,4'-Diphenylmethane Diisocyanate (MDI)	CAS-No.: 5873-54-1 EC-No.: 227-534-9 EC Index-No.: 615-005-00-9	(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) Eye Irrit. 2; H319 (5 ≤ C ≤ 100) STOT SE 3; H335 (5 ≤ C ≤ 100) Skin Irrit. 2; H315
2,2'-Diphenylmethane Diisocyanate	CAS-No.: 2536-05-2 EC-No.: 219-799-4 EC Index-No.: 615-005-00-9	(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

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: First aider: Pay attention to self-protection. Never give anything by mouth to an unconscious person. Give artificial respiration if necessary. Induce artificial respiration with mask fitted with one-way valve or other suitable device but, not mouth-to-mouth. IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If the victim is unconscious: Lay in a stable manner on victim's side. Induce artificial respiration with mask fitted with one-way valve or other suitable device; not mouth-to-mouth. Call a physician immediately.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin areas with mild soap and water, followed by warm water rinse. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
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	: Rinse mouth out with water. If the person is fully conscious, make him/her drink water (8 ounces / 240mL). Never give an unconscious person anything to drink. Do NOT induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects after inhalation	: May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Symptoms/effects after skin contact	: May cause an allergic skin reaction. Irritation (itching, redness, blistering).
Symptoms/effects after eye contact	: Stinging, redness, itching, tears, blurred vision, swelling.
Symptoms/effects after ingestion	: Not expected to present a significant ingestion hazard under anticipated conditions of normal use. Ingestion may cause nausea and vomiting.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Dry chemical, CO ₂ , dry sand, or alcohol-resistant foam. Use extinguishing agent suitable for surrounding fire.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: No fire hazard.
Hazardous decomposition products in case of fire	: Toxic fumes may be released. Thermal decomposition generates: Carbon dioxide. Carbon monoxide. Nitrogen oxides.

5.3. Advice for firefighters

Firefighting instructions	: Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. Move containers from fire area if it can be done without personal risk. Use water spray or fog for cooling exposed containers. Use extinguishing media appropriate for surrounding fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Avoid all personal contact including breathing in the mist, spray, vapours, gas. Do not take actions involving personal risks. Stop leak if safe to do so. Absorb spillage to prevent material damage. Notify authorities if product enters sewers or public waters.
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For non-emergency personnel

Protective equipment	: Wear recommended personal protective equipment.
Emergency procedures	: Evacuate the danger area. If outdoors, move to an area upwind of the danger area. If possible without taking personal risks, remove ignition sources, ventilate area. Avoid contact with skin and eyes. Avoid breathing mist, spray, vapours, gas. Prevent other non-emergency personnel from entering the danger area.

For emergency responders

Protective equipment	: Wear the recommended personal protective equipment.
Emergency procedures	: Evacuate unnecessary personnel. Ventilate spillage area. Stop leak if safe to do so. Remove all sources of ignition.

6.2. Environmental precautions

Do not let the product reach soil, drains, sewers, or surface and ground water.

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6.3. Methods and material for containment and cleaning up

- For containment : Stop leak without risks if possible. Small spills: Contain with non-combustible inert absorbent. In case of large spillages: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Absorb spilled material with sand or earth.
- Methods for cleaning up : Take up in non-combustible inert absorbent and place into container for disposal. Contaminated absorbent material may pose the same hazard as the spilt product. Decontaminate surfaces and equipment with water and detergent. Until a sufficient level of dilution is achieved, the decontamination water may pose the same hazards as the product. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid breathing mist, spray, vapours, gas. Avoid contact with skin, eyes and clothing. Take precautionary measures against static discharge.
- Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in a cool, dry and well-ventilated area away from incompatible substances. Store locked up. Store tightly closed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.
- Incompatible products : Oxidizing agents.
- Packaging materials : Always store product in container of same material as original container.

Germany

Storage class (LGK, TRGS 510)

Joint storage table

: LGK 12 - Non-combustible liquids

LGK 1	LGK 2A	LGK 2B	LGK 3	LGK 4.1A
LGK 4.1B	LGK 4.2	LGK 4.3	LGK 5.1A	LGK 5.1B
LGK 5.1C	LGK 5.2	LGK 6.1A	LGK 6.1B	LGK 6.1C
LGK 6.1D	LGK 6.2	LGK 7	LGK 8A	LGK 8B
LGK 10	LGK 11	LGK 12	LGK 13	LGK 10-13

Joint storage not permitted for

Joint storage with restrictions permitted for

Joint storage permitted for

: LGK 1, LGK 6.2, LGK 7

: LGK 4.1A, LGK 4.3, LGK 5.1C

: LGK 2A, LGK 2B, LGK 3, LGK 4.1B, LGK 4.2, LGK 5.1A, LGK 5.1B, LGK 5.2, LGK 6.1A, LGK 6.1B, LGK 6.1C, LGK 6.1D, LGK 8A, LGK 8B, LGK 10, LGK 11, LGK 12, LGK 13, LGK 10-13

7.3. Specific end use(s)

Water stop.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure and biological limit values

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Dimethyl Glutarate (1119-40-0)

Germany - Occupational Exposure Limits (TRGS 900)

Local name	Dimethylglutarat
AGW (OEL TWA)	8 mg/m ³ 1.2 ppm
Peak exposure limitation factor	2(l)
Remark	AGS - Ausschuss für Gefahrstoffe; Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden; 11 - Summe aus Dampf und Aerosolen
Regulatory reference	TRGS900

Dimethyl Adipate (627-93-0)

Germany - Occupational Exposure Limits (TRGS 900)

Local name	Dimethyladipat
AGW (OEL TWA)	8 mg/m ³ 1.2 ppm
Peak exposure limitation factor	2(l)
Remark	AGS - Ausschuss für Gefahrstoffe; Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden; 11 - Summe aus Dampf und Aerosolen
Regulatory reference	TRGS900

Dimethyl Succinate (106-65-0)

Germany - Occupational Exposure Limits (TRGS 900)

Local name	Dimethylsuccinat
AGW (OEL TWA)	8 mg/m ³ 1.2 ppm
Peak exposure limitation factor	2(l)
Remark	AGS - Ausschuss für Gefahrstoffe; Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden; 11 - Summe aus Dampf und Aerosolen
Regulatory reference	TRGS900

8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station. Use general ventilation, local exhaust ventilation, or process enclosure to keep the airborne concentrations below the permissible exposure limits.

Personal protection equipment

Personal protective equipment:

Personal protective equipment should be chosen according to national standards and in discussion with the supplier of the protective equipment.

Wear recommended personal protective equipment.

Personal protective equipment symbol(s):



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Eye and face protection

Eye protection:

Chemical goggles or safety glasses

Skin protection

Skin and body protection:

Long sleeved protective clothing. Body protection should be chosen depending on activity and possible exposure

Hand protection:

Wear protective gloves. Wear suitable gloves resistant to chemical penetration. Discard contaminated gloves and wash contaminated clothing before reuse

Other skin protection

Materials for protective clothing:

Personal protective equipment should be chosen according to national standards and in discussion with the supplier of the protective equipment.

Respiratory protection

Respiratory protection:

In case of inadequate ventilation, wear respiratory protection. Select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment. Take measures to reduce or limit air emissions and releases to soil and the aquatic environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Amber. Light brown.
Appearance	: Clear liquid.
Odour	: Not available
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Non flammable
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: > 93.3 °C / 200 °F
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: Not available
Viscosity, dynamic	: 725 – 1025 cP (25 °C/ 77 °F)
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: 1.09 – 1.12
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

No additional information available

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SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Incompatible materials.

10.5. Incompatible materials

Oxidizing agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition generates: Carbon dioxide. Carbon monoxide. Nitrogen oxides.

SECTION 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) : Inhalation:dust,mist: Harmful if inhaled.

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ATE CLP (dust,mist)	1.647 mg/l/4h
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4,4'-Methylenediphenyl diisocyanate (101-68-8)

LD50 oral rat	9200 mg/kg bodyweight
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Toluene-diisocyanate (mixed isomers) (26471-62-5)

LD50 dermal rabbit	> 9400 mg/kg bodyweight
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4-Isocyanatosulphonyltoluene (4083-64-1)

LD50 oral rat	2330 mg/kg bodyweight
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LD50 dermal rat	> 2000 mg/kg bodyweight
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Dimethyl Glutarate (1119-40-0)

LD50 oral rat	8900 mg/kg bodyweight
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LD50 dermal rat	> 2000 mg/kg bodyweight
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Dimethyl Adipate (627-93-0)

LD50 oral	8500 mg/kg bodyweight (mouse)
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LD50 dermal rat	> 2000 mg/kg bodyweight
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LD50 dermal rabbit	> 5000 mg/kg bodyweight
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Dimethyl Succinate (106-65-0)

LD50 oral rat	> 5000 mg/kg
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Dimethyl Succinate (106-65-0)	
LD50 dermal rat	> 2000 mg/kg bodyweight
LD50 dermal rabbit	> 5000 mg/kg
Diphenylmethane Diisocyanate, isomers and homologues (9016-87-9)	
LD50 oral rat	49 g/kg
LD50 dermal rabbit	> 9400 mg/kg
LC50 Inhalation - Rat	490 mg/m ³
Unknown acute toxicity (GHS EU) - SDS	: 8.99% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral) 47.98% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Dimethyl Adipate (627-93-0)	
Serious eye damage/irritation, rabbit	Moderately irritating
Diphenylmethane Diisocyanate, isomers and homologues (9016-87-9)	
Serious eye damage/irritation, rabbit	Mildly irritating
Respiratory or skin sensitisation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Diphenylmethane Diisocyanate, isomers and homologues (9016-87-9)	
Additional information	Reexposure to extremely low isocyanate concentrations may cause allergic respiratory reactions in individuals already sensitized. Asthma-like symptoms may include coughing, difficult breathing and a feeling of tightness in the chest. Occasionally, breathing difficulties may be life threatening.
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Suspected of causing cancer.
4,4'-Methylenediphenyl diisocyanate (101-68-8)	
IARC group	3 - Not classifiable
Toluene-diisocyanate (mixed isomers) (26471-62-5)	
IARC group	2B - Possibly carcinogenic to humans
Diphenylmethane Diisocyanate, isomers and homologues (9016-87-9)	
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: May cause respiratory irritation.
4,4'-Methylenediphenyl diisocyanate (101-68-8)	
STOT-single exposure	May cause respiratory irritation.
Toluene-diisocyanate (mixed isomers) (26471-62-5)	
STOT-single exposure	May cause respiratory irritation.
4-Isocyanatosulphonyltoluene (4083-64-1)	
STOT-single exposure	May cause respiratory irritation.
2,4'-Diphenylmethane Diisocyanate (MDI) (5873-54-1)	
STOT-single exposure	May cause respiratory irritation.
2,2'-Diphenylmethane Diisocyanate (2536-05-2)	
STOT-single exposure	May cause respiratory irritation.

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Diphenylmethane Diisocyanate, isomers and homologues (9016-87-9)

STOT-single exposure : May cause respiratory irritation.

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

4,4'-Methylenediphenyl diisocyanate (101-68-8)

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

2,4'-Diphenylmethane Diisocyanate (MDI) (5873-54-1)

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

2,2'-Diphenylmethane Diisocyanate (2536-05-2)

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

Diphenylmethane Diisocyanate, isomers and homologues (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)

Toluene-diisocyanate (mixed isomers) (26471-62-5)

Viscosity, kinematic : 2.221 mm²/s

2,4'-Diphenylmethane Diisocyanate (MDI) (5873-54-1)

Viscosity, kinematic : 4.002 mm²/s

11.2. Information on other hazards

No additional information available

SECTION 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)

4,4'-Methylenediphenyl diisocyanate (101-68-8)

NOEC (chronic) : ≥ 10 mg/l

Toluene-diisocyanate (mixed isomers) (26471-62-5)

LC50 - Fish [1] : 133 mg/l

EC50 - Crustacea [1] : 12.5 mg/l

EC50 - Other aquatic organisms [1] : 18.3 mg/l

EC50 96h - Algae [1] : 3230 mg/l

EC50 96h - Algae [2] : 4300 mg/l

LOEC (chronic) : 2.2 mg/l

NOEC (chronic) : 1.1 mg/l

4-Isocyanatosulphonyltoluene (4083-64-1)

LC50 - Fish [1] : > 45 mg/l

EC50 - Crustacea [1] : > 100 mg/l

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4-Isocyanatosulphonyltoluene (4083-64-1)	
EC50 72h - Algae [1]	30 mg/l
EC50 72h - Algae [2]	25 mg/l
2,4'-Diphenylmethane Diisocyanate (MDI) (5873-54-1)	
NOEC (chronic)	≥ 10 mg/l
2,2'-Diphenylmethane Diisocyanate (2536-05-2)	
NOEC (chronic)	≥ 10 mg/l
Dimethyl Glutarate (1119-40-0)	
LC50 - Fish [1]	13400 mg/l
EC50 - Crustacea [1]	3940 – 4670 mg/l
Dimethyl Adipate (627-93-0)	
LC50 - Fish [1]	87.095 mg/l
EC50 - Crustacea [1]	72 mg/l
EC50 72h - Algae [1]	> 100 mg/l
EC50 96h - Algae [1]	6.691 mg/l
Dimethyl Succinate (106-65-0)	
LC50 - Fish [1]	50 mg/l
EC50 - Crustacea [1]	> 100 mg/l
EC50 72h - Algae [1]	> 100 mg/l
EC50 96h - Algae [1]	11.917 mg/l
NOEC (chronic)	358.6 mg/l
Diphenylmethane Diisocyanate, isomers and homologues (9016-87-9)	
NOEC chronic algae	1640
Additional information	MDI (methylene diphenyl diisocyanate) is considered a marine pollutant because it can react with water, forming hazardous mixtures of diisocyanates and amines, and ultimately producing inert, solid, insoluble polyurea.

12.2. Persistence and degradability

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Persistence and degradability	Not established.
4,4'-Methylenediphenyl diisocyanate (101-68-8)	
Persistence and degradability	Not rapidly degradable
Toluene-diisocyanate (mixed isomers) (26471-62-5)	
Persistence and degradability	Not rapidly degradable
4-Isocyanatosulphonyltoluene (4083-64-1)	
Persistence and degradability	Not rapidly degradable
2,4'-Diphenylmethane Diisocyanate (MDI) (5873-54-1)	
Persistence and degradability	Not rapidly degradable

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2,2'-Diphenylmethane Diisocyanate (2536-05-2)

Persistence and degradability	Not rapidly degradable
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Dimethyl Glutarate (1119-40-0)

Persistence and degradability	Rapidly degradable
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Dimethyl Adipate (627-93-0)

Persistence and degradability	Rapidly degradable
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Dimethyl Succinate (106-65-0)

Persistence and degradability	Rapidly degradable
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Diphenylmethane Diisocyanate, isomers and homologues (9016-87-9)

Persistence and degradability	0 % biodegradation Not readily biodegradable.
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12.3. Bioaccumulative potential

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Bioaccumulative potential	Not established.
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Dimethyl Glutarate (1119-40-0)

Partition coefficient n-octanol/water (Log Pow)	0.62
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Dimethyl Adipate (627-93-0)

Partition coefficient n-octanol/water (Log Pow)	1.03
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Dimethyl Succinate (106-65-0)

Partition coefficient n-octanol/water (Log Pow)	0.35
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Diphenylmethane Diisocyanate, isomers and homologues (9016-87-9)

BCF - Fish [1]	92 28 days
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Partition coefficient n-octanol/water (Log Pow)	< 3
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12.4. Mobility in soil

Dimethyl Adipate (627-93-0)

Mobility in soil	10.9
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12.5. Results of PBT and vPvB assessment

Component

Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	4,4'-Methylenediphenyl diisocyanate (101-68-8), 2,4'-Diphenylmethane Diisocyanate (MDI) (5873-54-1)
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Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	4,4'-Methylenediphenyl diisocyanate (101-68-8), 2,4'-Diphenylmethane Diisocyanate (MDI) (5873-54-1)
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12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

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SECTION 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. Refer to all applicable national, international and local regulations or provisions.
Additional information	: Do not re-use empty containers.
Ecological waste information	: Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
Not regulated for transport				
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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SECTION 15: Regulatory information

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

EU-Regulations

REACH Annex XVII (Restriction List)

Reference code	Applicable on	Entry title or description
3(b)	Azo Grout 675 ; Toluene-diisocyanate (mixed isomers) ; 4-Isocyanatosulphonyltoluene ; 2,4'-Diphenylmethane Diisocyanate (MDI) ; 2,2'-Diphenylmethane Diisocyanate ; Dimethyl Glutarate ; Dimethyl Adipate ; Dimethyl Succinate ; Diphenylmethane Diisocyanate, isomers and homologues	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)	Toluene-diisocyanate (mixed isomers) ; 4-Isocyanatosulphonyltoluene	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.
56(a)	4,4'-Methylenediphenyl diisocyanate	Methylenediphenyl diisocyanate (MDI) isomers: 4,4'-Methylenediphenyl diisocyanate
56(b)	2,4'-Diphenylmethane Diisocyanate (MDI)	Methylenediphenyl diisocyanate (MDI) isomers: 2,4'-Methylenediphenyl diisocyanate
56(c)	2,2'-Diphenylmethane Diisocyanate	Methylenediphenyl diisocyanate (MDI) isomers: 2,2'-Methylenediphenyl diisocyanate
74.	4,4'-Methylenediphenyl diisocyanate ; Toluene-diisocyanate (mixed isomers) ; 2,4'-Diphenylmethane Diisocyanate (MDI) ; 2,2'-Diphenylmethane Diisocyanate	Diisocyanates, $O = C=N-R-N = C=O$, with R an aliphatic or aromatic hydrocarbon unit of unspecified length

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 (2024/590)

Not listed on the Ozone Depletion list (Regulation EU 2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

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Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

Explosives Precursors Regulation (EU 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 (EC 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)

National regulations

Germany

Employment restrictions : Observe restrictions according to the Act on the Protection of Working Mothers (MuSchG).
Observe restrictions according to the Act on the Protection of Young People in Employment (JArbSchG).

Water hazard class (WGK) : WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Indication of changes		
Section	Changed item	Comments
	Supersedes version of	Added
	Revision date	Added
3	Composition/information on ingredients	Modified
8	Occupational Exposure Limits	Added
15	Regulatory information	Modified

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration

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Abbreviations and acronyms:

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
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstracts Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disruptor

Data sources : SDS prepared by CHEMTREC.

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
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Carc. 2	Carcinogenicity, Category 2
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
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, Respiratory tract irritation
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.

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Full text of H- and EUH-statements:

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.
H412	Harmful to aquatic life with long lasting effects.

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

Acute Tox. 4 (Inhalation:dust,mist)	H332	Calculation method
Skin Irrit. 2	H315	Calculation method
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	H335	Calculation method

The classification complies with : ATP 12

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.