

Topfix Black

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
First edition: 19/10/2005 Last revision: 8/10/2024 Supersedes version of: 21/12/2022 Version: 10.0

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

1.1. Product identifier

Product form : Mixture
Name : Topfix Black
Product number : 07.1435.0000

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

Relevant identified uses

Main use category : Industrial use, Professional use
Use of the substance or preparation : 2-component product for the fast gluing of many different materials.

1.3. Details of the supplier of the safety data sheet

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1.4. Emergency telephone number

24h/24h (Telephone advice: English, French, German, Dutch):
BIG : +32 (0) 14 58 45 45

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) no 1272/2008 (CLP)

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

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

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS07

GHS08

Signal word (CLP) : Danger

Contains : 4,4'-methylenediphenyl diisocyanate; Polymer with α -hydro- ω -hydroxypoly[oxy(methyl-1,2-ethanediyl)] and polymethylenepolyphenylene ester of isocyanic acid ; Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate; Diphenylmethanediisocyanate (isomers and homologues); Piperazine

Hazard statements (CLP) :
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 - May cause respiratory irritation.
H351 - Suspected of causing cancer.

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Precautionary statements (CLP)	H373 - May cause damage to organs (respiratory system) through prolonged or repeated exposure. : P260 - Do not breathe vapours. P280 - Wear protective gloves, eye protection. P285 - In case of inadequate ventilation wear respiratory protection. P304 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
EUH-statements	: EUH204 - Contains isocyanates. May produce an allergic reaction.

2.3. Other hazards

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 %

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) no 1272/2008 (CLP)
Diphenylmethanediisocyanate (isomeres and homologues)	CAS number: 9016-87-9	10 – 35	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 EUH204
Polymer of glycerol and propylene oxide	CAS number: 25791-96-2 EINECS / ELINCS number: 500-044-5 REACH-no: 01-2119484612-36	10 – 20	Acute Tox. 4 (Oral), H302
Polymer with α -hydro- ω -hydroxypoly[oxy(methyl-1,2-ethanediyl)] and polymethylenepolyphenylene ester of isocyanic acid	CAS number: 53862-89-8	10 – 12	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 EUH204
4,4'-methylenediphenyl diisocyanate	CAS number: 101-68-8 EINECS / ELINCS number: 202-966-0 EC Index-No.: 615-005-00-9 REACH-no: 01-2119457014-47	5 – 5,5	Carc. 2, H351 Acute Tox. 4 (Inhalation), H332 STOT RE 2, H373 Eye Irrit. 2, H319 STOT SE 3, H335 Skin Irrit. 2, H315 Resp. Sens. 1, H334 Skin Sens. 1, H317 EUH204
Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate	CAS number: 26447-40-5 EINECS / ELINCS number: 247-714-0 REACH-no: 01-2119457015-45	0,1 – 0,7	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 EUH204

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Name	Product identifier	%	Classification according to Regulation (EC) no 1272/2008 (CLP)
Piperazine	CAS number: 110-85-0 EINECS / ELINCS number: 203-808-3 REACH-no: 01-2119480384-35	0,1 – 0,4	Flam. Sol. 1, H228 Skin Corr. 1B, H314 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1, H317 Repr. 2, H361fd

Specific concentration limits:		
Name	Product identifier	Specific concentration limits (%)
4,4'-methylenediphenyl diisocyanate	CAS number: 101-68-8 EINECS / ELINCS number: 202-966-0 EC Index-No.: 615-005-00-9 REACH-no: 01-2119457014-47	(0,1 ≤ C ≤ 100) Resp. Sens. 1; H334 (5 ≤ C ≤ 100) STOT SE 3; H335 (5 ≤ C ≤ 100) Skin Irrit. 2; H315 (5 ≤ C ≤ 100) Eye Irrit. 2; H319

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice	: Keep under medical supervision for at least 48 hours. Symptoms of poisoning may not appear for several hours.
Inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
Skin contact	: Gently wash with plenty of soap and water. Rinse with plenty of water.
Eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Ingestion	: Rinse mouth. Drink plenty of water. Do NOT induce vomiting. Call a POISON CENTER/doctor if you feel unwell.

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

Inhalation	: May cause sensitization by inhalation. Based on our knowledge of isocyanate components and the toxicological data on comparable preparations, we can say that this preparation may cause acute irritation and/or sensitisation of the bronchial tubes, which can lead to asthma, wheezing and tightness of the chest. we can say that this preparation may cause acute irritation and/or sensitisation of the bronchial tubes, which can lead to asthma, wheezing and tightness of the chest. Sensitised people may show asthmatic symptoms after exposure to concentrations in the air well below the threshold for occupational exposure. Repeated exposure can have the effect of permanently impairing breathing.
Skin contact	: Causes skin irritation. May cause sensitisation of susceptible persons by skin contact.
Eyes contact	: Causes serious eye irritation.

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

This material or its emissions may aggravate pulmonary/bronchial disease and/or cause breathing difficulty. May cause burns.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Water spray. Carbon dioxide. Dry powder. Alcohol resistant foam.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: May release heat. Polymerization.
Reactivity in case of fire	: On burning formation of metallic fumes. Nitrous fumes. Carbon monoxide. Carbon dioxide.

5.3. Advice for firefighters

Firefighting instructions	: Prevent fire fighting water from entering the environment. Use water spray or fog for cooling exposed containers.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Do not breathe fumes from fires or vapours from decomposition.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Wear suitable protective clothing. Keep upwind.
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For non-emergency personnel

Protective equipment : Refer to protective measures listed in Sections 7 and 8.
Emergency procedures : Evacuate unnecessary personnel.

For emergency responders

Protective equipment : Equip cleanup crew with proper protection.
Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Contain and collect spillage with non-combustible absorbent material such as sand, earth, vermiculite, diatomaceous earth. Neutralize with a suitable decontaminant, collect mechanically and allow to stand for several days in a non-sealed container until no further reaction occurs. Once this stage is reached, close container and dispose of in accordance with the local waste regulations (see section 13). The contaminated area should be cleaned up immediately with the same suitable decontaminant. A suitable decontaminant can be obtained by mixing: . water (45 parts), ethanol or isopropyl alcohol (50 parts) and concentrated (d: 0,880) ammonia solution (5 parts). water (95 parts), sodium carbonate (5 parts).

Other information : Provide adequate ventilation.

6.4. Reference to other sections

Stable in use and storage conditions as recommended in item 7. Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do not eat, drink or smoke when using this product. Use personal protective equipment as required. Provide adequate ventilation.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed. Keep cool.

Information on mixed storage : Water.

Technical condition(s) : The floor of the depot should be impermeable and designed to form a water-tight basin.

Special rules on packaging : Keep container tightly closed and dry. Store in a cool area. Keep only in original container. Keep out of frost.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure and biological limit values

Piperazine (110-85-0)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Piperazine
IOEL TWA	0,1 mg/m ³
IOEL STEL	0,3 mg/m ³
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
United Kingdom - Occupational Exposure Limits	
Local name	Piperazine
WEL TWA (OEL TWA)	0,1 mg/m ³
WEL STEL (OEL STEL)	0,3 mg/m ³
Remark	Sen (Capable of causing occupational asthma. See paragraphs 53–56)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

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DNEL and PNEC

4,4'-methylenediphenyl diisocyanate (101-68-8)	
DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	50 mg/kg bodyweight/day
Acute - systemic effects, inhalation	0,1 mg/m ³
Acute - local effects, dermal	28,7 mg/cm ²
Acute - local effects, inhalation	0,1 mg/m ³
Long-term - systemic effects, inhalation	0,05 mg/m ³
Long-term - local effects, inhalation	0,05 mg/m ³
DNEL/DMEL (General population)	
Acute - systemic effects, dermal	25 mg/kg bodyweight
Acute - systemic effects, inhalation	0,05 mg/m ³
Acute - systemic effects, oral	20 mg/kg bodyweight
Acute - local effects, dermal	17,2 mg/cm ²
Acute - local effects, inhalation	0,05 mg/m ³
Long-term - systemic effects, inhalation	0,025 mg/m ³
Long-term - local effects, inhalation	0,025 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	1 mg/l
PNEC aqua (marine water)	0,1 mg/l
PNEC aqua (intermittent, freshwater)	10 mg/l
PNEC (Soil)	
PNEC soil	1 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	1 mg/l
Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate (26447-40-5)	
DNEL/DMEL (Workers)	
Acute - systemic effects, inhalation	0,1 mg/m ³
Acute - local effects, dermal	28,7 mg/cm ²
Acute - local effects, inhalation	0,1 mg/m ³
Long-term - systemic effects, inhalation	0,05 mg/m ³
Long-term - local effects, inhalation	0,05 mg/m ³
DNEL/DMEL (General population)	
Acute - systemic effects, dermal	25 mg/kg bodyweight
Acute - systemic effects, inhalation	0,05 mg/m ³
Acute - systemic effects, oral	20 mg/kg bodyweight
Acute - local effects, dermal	17,2 mg/cm ²
Acute - local effects, inhalation	0,05 mg/m ³
Long-term - systemic effects, inhalation	0,025 mg/m ³
Long-term - local effects, inhalation	0,025 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	1 mg/l
PNEC aqua (marine water)	0,1 mg/l
PNEC (Soil)	
PNEC soil	1 mg/kg dwt

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Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate (26447-40-5)	
PNEC (STP)	
PNEC sewage treatment plant	1 mg/l
Diphenylmethanediisocyanate (isomeres and homologues) (9016-87-9)	
DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	50 mg/kg bodyweight/day
Acute - systemic effects, inhalation	0,1 mg/m ³
Acute - local effects, dermal	28,7 mg/cm ²
Acute - local effects, inhalation	0,1 mg/m ³
Long-term - systemic effects, inhalation	0,05 mg/m ³
Long-term - local effects, inhalation	0,05 mg/m ³
DNEL/DMEL (General population)	
Acute - systemic effects, dermal	25 mg/kg bodyweight
Acute - systemic effects, inhalation	0,05 mg/m ³
Acute - systemic effects, oral	20 mg/kg bodyweight
Acute - local effects, dermal	17,2 mg/cm ²
Acute - local effects, inhalation	0,05 mg/m ³
Long-term - systemic effects, inhalation	0,025 mg/m ³
Long-term - local effects, inhalation	0,025 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	1 mg/l
PNEC aqua (marine water)	0,1 mg/l
PNEC aqua (intermittent, freshwater)	10 mg/l
PNEC (Soil)	
PNEC soil	1 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	1 mg/l
Piperazine (110-85-0)	
DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	0,042 mg/kg bodyweight/day
Acute - systemic effects, inhalation	0,3 mg/m ³
Acute - local effects, dermal	2 % in mixture
Acute - local effects, inhalation	0,3 mg/m ³
Long-term - systemic effects, dermal	0,014 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0,1 mg/m ³
Long-term - local effects, inhalation	0,3 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	1,5 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	1,25 mg/l
PNEC aqua (marine water)	0,125 mg/l
PNEC aqua (intermittent, freshwater)	1,25 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	4,5 mg/kg dwt

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Piperazine (110-85-0)	
PNEC sediment (marine water)	0,45 mg/kg dwt
PNEC (Soil)	
PNEC soil	11,5 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	4,6 mg/kg food
PNEC (STP)	
PNEC sewage treatment plant	54 mg/l

8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protection equipment

Personal protective equipment:

In case of inadequate ventilation wear respiratory protection. Safety glasses. Gloves.

Personal protective equipment symbol(s):



Eye and face protection

Eye protection:

Wear security glasses which protect from splashes

Skin protection

Skin protection:

Wear suitable protective clothing

Hand protection:

Where hand contact with the product may occur, the use of gloves (approved according to the EN374 standard) made from the following materials may provide suitable chemical protection: butyl rubber, Nitrile rubber, rubber gloves. For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes. For short-term/splash protection we recommend the same, but recognise that suitable gloves offering this level of protection may not be available. In this case a lower breakthrough time may be acceptable as long as appropriate glove maintenance and replacement regimes are rigorously followed. Glove thickness is not a good predictor of glove resistance to a chemical as it is dependent on the exact composition of the glove material. Depending on model and material, glove thickness generally should be greater than 0,35 mm. Suitability and durability of a glove is dependent on usage (= frequency and duration of contact), chemical resistance of glove material, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly.

Respiratory protection

Respiratory protection:

In case of inadequate ventilation wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Black.
Appearance	: Viscous.
Odour	: Characteristic.
Odour threshold	: Not available
Melting point/melting range	: Not available
Freezing point	: Not available
Boiling point/range	: Not available
Flammability	: Not available

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Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: > 150 °C
Auto-ignition temperature	: 580 °C
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: Not available
Solubility	: Water: The product reacts slowly with water resulting in evolution of carbon dioxide
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 20 °C	: Not available
Density	: Not available
Relative density (water = 1)	: 1,1 (20°C)
Vapour density	: Not available
Particle characteristics	: Not applicable

9.2. Other information

Other safety characteristics

V.O.C. (V.O.S.) : 0,2 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

Hardening time : 1 h

10.3. Possibility of hazardous reactions

Water. May release heat. Acids. Polymerization. Bases. Amines.

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

The product reacts slowly with water resulting in evolution of carbon dioxide.

10.6. Hazardous decomposition products

CO. CO₂. NO_x.

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

4,4'-methylenediphenyl diisocyanate (101-68-8)	
LD50/oral/rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: other:
LD50/dermal/rabbit	> 9400 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate (26447-40-5)	
LD50/oral/rat	> 100000 mg/kg
LD50/dermal/rabbit	> 5000 mg/kg
LC50/inhalation/4h/rat	0,49 mg/l/4h

Diphenylmethanediiisocyanate (isomeres and homologues) (9016-87-9)	
LD50/oral/rat	> 10000 mg/kg
LD50/dermal/rabbit	> 9400 mg/kg

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

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Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: Based on available data, the classification criteria are not met
Carcinogenicity	: Suspected of causing cancer.
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: 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.
Polymer with α-hydro-ω-hydroxypoly[oxy(methyl-1,2-ethanediyl)] and polymethylenepolyphenylene ester of isocyanic acid (53862-89-8)	
STOT-single exposure	May cause respiratory irritation.
Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate (26447-40-5)	
STOT-single exposure	May cause respiratory irritation.
Diphenylmethanediisocyanate (isomeres and homologues) (9016-87-9)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: May cause damage to organs (respiratory system) through prolonged or repeated exposure.

4,4'-methylenediphenyl diisocyanate (101-68-8)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Polymer with α-hydro-ω-hydroxypoly[oxy(methyl-1,2-ethanediyl)] and polymethylenepolyphenylene ester of isocyanic acid (53862-89-8)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate (26447-40-5)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Diphenylmethanediisocyanate (isomeres 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)
Additional information	: Based on available data, the classification criteria are not met

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

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)	
LC50/96h/fish	> 1000 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50/24h/daphnia magna	> 1000 mg/l
NOEC (chronic)	≥ 10 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
Diphenylmethanediisocyanate (isomeres and homologues) (9016-87-9)	
EC50/24h/daphnia magna	> 1000 mg/kg
Piperazine (110-85-0)	
LC50/96h/fish	> 1800 mg/l Test organisms (species): Poecilia reticulata
EC50/24h/daphnia magna	21 mg/l Test organisms (species): Daphnia magna

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12.2. Persistence and degradability

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Persistence and degradability	Rapidly degradable
4,4'-methylenediphenyl diisocyanate (101-68-8)	
Persistence and degradability	Rapidly degradable
Polymer with α -hydro- ω -hydroxypoly[oxy(methyl-1,2-ethanediyl)] and polymethylenepolyphenylene ester of isocyanic acid (53862-89-8)	
Persistence and degradability	Rapidly degradable
Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate (26447-40-5)	
Persistence and degradability	Rapidly degradable
Diphenylmethanediisocyanate (isomeres and homologues) (9016-87-9)	
Persistence and degradability	Rapidly degradable
Polymer of glycerol and propylene oxide (25791-96-2)	
Persistence and degradability	Rapidly degradable
Piperazine (110-85-0)	
Persistence and degradability	Rapidly degradable

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

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

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General information(s)	Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional waste regulation	: Disposal must be done according to official regulations.
Waste / unused products	: Avoid release to the environment. Do not dispose of with domestic waste.
European List of Waste (LoW, EC 2000/532)	: 08 05 01* - waste isocyanates 15 01 02 - plastic packaging

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

14.1. UN number or ID number

UN-No. (ADR)	: Not applicable
UN-No. (IMDG)	: Not applicable
UN-No. (IATA)	: Not applicable

14.2. UN proper shipping name

Proper Shipping Name (ADR)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR)	: Not applicable
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IMDG

Transport hazard class(es) (IMDG)	: Not applicable
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IATA

Transport hazard class(es) (IATA) : Not applicable

14.4. Packing group

Packing group (ADR) : Not applicable

Packing group (IMDG) : Not applicable

Packing group (IATA) : Not applicable

14.5. Environmental hazards

Further information : No supplementary information available

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

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)

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

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

VOC Directive (2004/42)

V.O.C. (V.O.S.) : 0,2 g/l

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)

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	Modified
	Last revision	Modified

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Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Indication of changes		
Section	Changed item	Comments
3	Composition/information on ingredients	Modified
8.2	Materials for protective clothing	Removed
9.1	Relative density (water = 1)	Modified
9.1	Auto-ignition temperature	Modified
9.2	V.O.C. (V.O.S.)	Modified
11.1	Additional information	Added
15.1	V.O.C. (V.O.S.)	Modified

Abbreviations and acronyms:	
	ACGIH = American Conference of Governmental Industrial Hygienists
	ADR = Accord européen sur le transport des marchandises dangereuses par Route
	ATE = Acute Toxicity Estimate
	CAS = Chemical Abstracts Service
	CLP = Classification, labelling and packaging
	CSR = Chemical Safety Report
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No-Effect Level
	DPD = Dangerous Preparation Directive
	DSD = Dangerous Substance Directive
	EINECS/ELINCS = European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances.
	GHS = Globally Harmonized System of Classification and Labelling of Chemicals
	HTP = Haitallisiksi tunnetut pitoisuudet
	IATA = International Air Transport Association
	ICAO = International Civil Aviation Organization
	IMDG = International Maritime Code for Dangerous Goods
	IOELV = Indicative Occupational Exposure Limit Value (EU)
	LC50 = Lethal concentration, 50 percent
	LD50 = Lethal dose, 50 percent
	LEL = Lower Explosion Limit
	MAK = Maximale Arbeitsplatzkonzentrationen
	MAL-kode = Måleteknisk Arbejdshygienisk Luftbehov
	N.O.S. = Not Otherwise Specified
	NDS = Najwyższe Dopuszczalne Stężenie
	NDSch = Najwyższe Dopuszczalne Stężenie Chwilowe
	OEL = Occupational Exposure Limits
	PBT = Persistent, bioaccumulative and toxic
	PNEC = Predicted No-Effect Concentration
	REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals

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Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Abbreviations and acronyms:

	RID = Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail).
	STEL = Short term exposure limit
	STOT RE = specific target organ toxicity repeated exposure
	STOT SE = specific target organ toxicity single exposure
	SVHC = Substance of Very High Concern
	TLV = Threshold Limit Value
	TRGS = Technischen Regeln für Gefahrstoffe
	TWA = time weighted average
	UEL = Upper Explosion Limit
	VLA-EC = valores límite ambientales para la exposición de corta duración
	VLA-ED = valores límite ambientales para la exposición diaria
	VLE = Valeur Limite d'exposition
	VME = Valeur Limite de Moyenne d'exposition
	VOC = Volatile Organic Compounds
	vPvB = very Persistent and very Bioaccumulative
	WGK = Wassergefährdungsklasse

Full text of H- and EUH-statements:

Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Carc. 2	Carcinogenicity, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Sol. 1	Flammable solids, Category 1
Repr. 2	Reproductive toxicity, Category 2
Resp. Sens. 1	Respiratory sensitisation, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
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
H228	Flammable solid.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
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.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.

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Full text of H- and EUH-statements:

H373	May cause damage to organs (respiratory system) through prolonged or repeated exposure.
EUH204	Contains isocyanates. May produce an allergic reaction.

SDS PCS Innotec 2025

Disclaimer with regard to REACH:

The information provided in this Safety Data Sheet is consistent with the information in the Chemical Safety Report, as far as this information was available at the time of compilation (see last revision date).

Disclaimer:

The information of this Safety Data Sheet is based on the present state of our knowledge and on current EC and national laws, as the users' working conditions are beyond our knowledge and control. The user is always responsible for ensuring that the requirements of relevant legislation are complied with. The information contained in this Safety Data Sheet provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. The information provided relates only to the specific product designated and may not be valid for such product used in combination with any other product. The product must not be used for any purposes other than those specified without first obtaining written handling instructions.