

SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended by Commission Regulation (EU) 2020/878

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

1.1 Product identifier

Product name: Hydraseal DPM Part B

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

Identified uses: Reserved for industrial and professional use.

Uses advised against: Not for Consumer Use. For Industrial Use Only.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Importer/Supplier/Distributor Information

Tremco CPG Poland Sp. z o.o.
Ul. Marywilska 34
03-228 Warszawa
Poland

Telephone: +48 228798907

Fax: +48 228798918

Contact Person : ehs.uk@flowcrete.com, www.flowcrete.com.pl

National Supplier

Tremco CPG Sweden AB
Polhemsplatsen 5
411 03 Göteborg
Sweden

Telephone: +46 31570010

Fax: +46 31572007

Contact Person : www.tremcocpg.eu, info-se@tremcocpg.com

1.4 Emergency telephone number: 24h T: 112 – begär Giftinformation

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has been classified according to the legislation in force.

Classification according to Regulation (EC) No 1272/2008 as amended.

Health Hazards

Skin corrosion	Category 1B	H314: Causes severe skin burns and eye damage.
Serious eye damage	Category 1	H318: Causes serious eye damage.
Skin sensitizer	Category 1	H317: May cause an allergic skin reaction.
Respiratory sensitizer	Category 1	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Reproductive toxicity	Category 2	H361d: Suspected of damaging the unborn child.

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Environmental Hazards

Chronic hazards to the aquatic environment

Category 2

H411: Toxic to aquatic life with long lasting effects.

2.2 Label Elements



Signal Words:

Danger

Hazard Statement(s):

H314: Causes severe skin burns and eye damage.
H317: May cause an allergic skin reaction.
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H361d: Suspected of damaging the unborn child.
H411: Toxic to aquatic life with long lasting effects.

Precautionary Statements

Prevention:

P260: Do not breathe dust/gas/vapors.
P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304+P341: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313: IF exposed or concerned: Get medical advice/attention.

Hazardous ingredients which must be listed on the label:

Contains
4-tert-butylphenol
ethylenediamine
m-phenylenebis(methylamine)
2,2,4(or 2,4,4)-trimethyl-1,6-hexanediamine

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2.3 Other hazards

PBT/vPvB data

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

Endocrine disrupting properties-Toxicity

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Endocrine disrupting properties-Ecotoxicity

This substance/mixture contains components considered to have endocrine disrupting properties for environment, according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
4-tert-butylphenol	5 - <10%	98-54-4	202-679-0	No data available.	Aquatic Toxicity (Chronic): 1	##
m-phenylenebis(methylamine)	5 - <10%	1477-55-0	216-032-5	No data available.	Aquatic Toxicity (Acute): 1; Aquatic Toxicity (Chronic): 1	
2,2,4(or 2,4,4)-trimethyl-1,6-hexanediamine	1 - <3%	25513-64-8	247-063-2	No data available.	No data available.	
ethylenediamine	1 - <3%	107-15-3	203-468-6	No data available.	No data available.	# ##

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

This substance has workplace exposure limit(s).

This substance is listed as SVHC.

Classification

Chemical name	Classification	Notes
4-tert-butylphenol	Classification: Repr.: 2: H361f; Skin Irrit.: 2: H315; Eye Dam.: 1: H318; Aquatic Chronic: 1: H410	None.

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	Acute toxicity, oral: LD 50: > 2.000 mg/kg	
m-phenylenebis(methylamine)	Classification: Acute Tox.: 4: H302; Skin Corr.: 1B: H314; Skin Sens.: 1B: H317; Acute Tox.: 4: H332; Eye Dam.: 1: H318; Aquatic Chronic: 3: H412 Acute toxicity, oral: LD 50: 930 mg/kg Acute toxicity, inhalation: LC 50: 1,34 mg/l Acute toxicity, dermal: LD 50: > 3.100 mg/kg	None.
2,2,4(or 2,4,4)-trimethyl-1,6-hexanediamine	Classification: Acute Tox.: 4: H302; Skin Corr.: 1A: H314; Skin Sens.: 1A: H317; Eye Dam.: 1: H318 Acute toxicity, oral: LD 50: 910 mg/kg	None.
ethylenediamine	Classification: Flam. Liq.: 3: H226; Acute Tox.: 4: Acute Tox.: 4: H312; Acute Tox.: 4: H302; Skin Corr.: 1B: H314; Resp. Sens.: 1: H334; Skin Sens.: 1: H317 Acute toxicity, oral: LD 50: 866 mg/kg Acute toxicity, inhalation: LC 50: 6000 ppm Acute toxicity, dermal: LD 50: 560 mg/kg	None.

CLP: Regulation No. 1272/2008.

The full text for all H-statements is displayed in section 16.

Endocrine disrupting properties- Ecotoxicity

4-tert-butylphenol	This substance/mixture contains components considered to have endocrine disrupting properties for environment , according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.
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SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

Move into fresh air and keep at rest. Get medical attention if symptoms persist. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Remove contaminated clothing and shoes.

Inhalation:

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician. Place unconscious person on the side in the recovery position and ensure breathing can take place.

Skin Contact:

Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. Get medical attention if symptoms occur.

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Eye contact:	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention if symptoms occur.
Ingestion:	If swallowed, rinse mouth with water (only if the person is conscious). Do not give victim anything to drink if he is unconscious. DO NOT induce vomiting. Get medical attention immediately.
Personal Protection for First-aid Responders:	No data available.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: May cause skin and eye irritation.

Hazards: No data available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment: Get medical attention if symptoms occur.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Use fire-extinguishing media appropriate for surrounding materials. Water spray, foam, dry powder or carbon dioxide.

Unsuitable extinguishing media: No data available.

5.2 Special hazards arising from the substance or mixture:

During fire, gases hazardous to health may be formed.

5.3 Advice for firefighters

Special fire-fighting procedures: No data available.

Special protective equipment for fire-fighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Use water spray to keep fire-exposed containers cool.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment. Keep public away from danger area. See Section 8 of the SDS for Personal Protective Equipment.

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6.1.1 For non-emergency personnel:	In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. Eliminate all sources of ignition. Provide adequate ventilation. Avoid contact with eyes, skin, and clothing. Avoid breathing vapors.
6.1.2 For emergency responders:	No data available.
6.2 Environmental Precautions:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer. Environmental manager must be informed of all major spillages.
6.3 Methods and material for containment and cleaning up:	Dam and absorb spillages with sand, earth or other non-combustible material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.
6.4 Reference to other sections:	For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures:	No data available.
Local/Total ventilation:	Use only with adequate ventilation.
Safe handling advice:	Provide adequate ventilation. Avoid contact with eyes and prolonged or repeated contact with skin. Wear appropriate personal protective equipment. Wash at the end of each work shift and before eating, smoking and using the toilet. Do not smoke, use open fire or other sources of ignition.
Contact avoidance measures:	Avoid contact with flame and heat source, prevent contact with direct sunlight

7.2 Conditions for safe storage, including any incompatibilities

Safe storage conditions:	Store in original tightly closed container. Keep far from flame and heat source, prevent contact with direct sunlight Keep at temperature not exceeding 40°C. Store away from incompatible materials. Keep from freezing.
Safe packaging materials:	No data available.

7.3 Specific end use(s):	No data available.
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SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

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Occupational Exposure Limits

Chemical name	Type	Form of exposure	Exposure Limit Values		Source
ethylenediamine	NGV		10 ppm	25 mg/m ³	TLV (SE) (11 2022)
	KTV 15 minutes		15 ppm	35 mg/m ³	TLV (SE) (11 2022)

Please refer to the latest edition of the appropriate source text and consult an industrial hygienist or similar professional, or local agencies, for further information.

Biological Limit Values

No biological exposure limits noted for the ingredient(s).

DNEL-Values

Remarks: DNEL-Values

Critical component	Type	Route of Exposure	Health Warnings	Remarks
4-tert-butylphenol	Workers	Eyes	Local effect;	Medium hazard (no threshold derived)
	General population	Dermal	Systemic, long-term; 0,026 mg/kg	Repeated dose toxicity
	General population	Oral	Systemic, long-term; 0,026 mg/kg	Repeated dose toxicity
	General population	Inhalation	Systemic, long-term; 0,09 mg/m ³	Repeated dose toxicity
	Workers	Inhalation	Systemic, long-term; 0,5 mg/m ³	Repeated dose toxicity
	General population	Eyes	Local effect;	Medium hazard (no threshold derived)
	Workers	Dermal	Systemic, long-term; 0,071 mg/kg	Repeated dose toxicity
m-phenylenebis(methylamine)	General population	Eyes	Local effect;	No hazard identified
	Workers	Eyes	Local effect;	Medium hazard (no threshold derived)
	Workers	Inhalation	Systemic, long-term; 1,2 mg/m ³	Repeated dose toxicity
	Workers	Inhalation	Local, long-term; 0,2 mg/m ³	Repeated dose toxicity
	Workers	Dermal	Systemic, long-term; 0,33 mg/kg	developmental toxicity / teratogenicity
2,2,4(or 2,4,4)-trimethyl-1,6-hexanediamine	General population	Oral	Systemic, long-term; 0,05 mg/kg	Repeated dose toxicity
	General population	Eyes	Local effect;	No hazard identified
	Workers	Eyes	Local effect;	High hazard (no threshold derived)
ethylenediamine	General population	Inhalation	Systemic, long-term; 6,25 mg/m ³	Repeated dose toxicity
	Workers	Inhalation	Systemic, long-term; 25 mg/m ³	Repeated dose toxicity
	General population	Eyes	Local effect;	No hazard identified
	Workers	Eyes	Local effect;	Medium hazard (no threshold derived)
	General population	Oral	Systemic, long-term; 0,11 mg/kg	Repeated dose toxicity

PNEC-Values

Remarks: PNEC-Values

Critical component	Environmental compartment	PNEC-Values	Remarks
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4-tert-butylphenol	Sediment (freshwater)	0,27 mg/kg	
	Predator	46,67 mg/kg	Oral
	Soil	0,25 mg/kg	Soil
	Aquatic (marine water)	0,001 mg/l	
	Aquatic (freshwater)	0,01 mg/l	
	Sewage treatment plant	1,5 mg/l	
	Sediment (marine water)	0,027 mg/kg	
m-phenylenebis(methylamine)	Sediment (freshwater)	12,4 mg/kg	
	Aquatic (marine water)	0,009 mg/l	
	Soil	2,44 mg/kg	Soil
	Aquatic (freshwater)	0,094 mg/l	
	Sediment (marine water)	1,24 mg/kg	
	Sewage treatment plant	10 mg/l	
2,2,4(or 2,4,4)-trimethyl-1,6-hexanediamine	Soil	10 mg/kg	Soil
	Sewage treatment plant	72 mg/l	
	Sediment (freshwater)	0,622 mg/kg	
	Sediment (marine water)	0,062 mg/kg	
	Aquatic (freshwater)	0,102 mg/l	
	Aquatic (marine water)	0,01 mg/l	
ethylenediamine	Aquatic (marine water)	0,002 mg/l	
	Sewage treatment plant	0,32 mg/l	
	Soil	4,36 mg/kg	Soil
	Sediment (marine water)	0,768 mg/kg	
	Aquatic (freshwater)	0,016 mg/l	
	Predator	4,9 mg/kg	Oral
	Sediment (freshwater)	7,68 mg/kg	

8.2 Exposure controls

Appropriate Engineering Controls:

Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Mechanical ventilation or local exhaust ventilation may be required.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection:

Wear suitable goggles tested to EN ISO 16321.

Hand Protection:

Additional Information: Use suitable protective gloves if risk of skin contact. Wear suitable gloves tested to EN374. Gloves should be replaced regularly and if there is any sign of damage to the glove material. Wear chemical-resistant gloves and protective clothing appropriate for the risk of exposure. Recommended gloves:
Material: Nitrile rubber.
Glove thickness: 0,5 mm
Material: Butyl rubber.
Glove thickness: 0,5 mm

Skin and Body Protection:

Wear suitable protective clothing as protection against splashing or contamination.

Respiratory Protection:

In case of inadequate ventilation and work of brief duration, use suitable respiratory equipment. Use respiratory equipment with gas filter, type A2.

Hydraseal DPM Part B

Hygiene measures:

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned. Wash hands and face before breaks and after work and take a shower if necessary.

Environmental Controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state: liquid

Form: liquid

Color: Amber

Odor: No data available.

Odor Threshold: No data available.

Freezing point: No data available.

Boiling Point: 116 °C

Flammability: No data available.

Upper/lower limit on flammability or explosive limits

Explosive limit - upper: No data available.

Explosive limit - lower: No data available.

Flash Point: > 100 °C

Auto-ignition temperature: No data available.

Decomposition Temperature: No data available.

pH: No data available.

Viscosity

Dynamic viscosity: No data available.

Kinematic viscosity: No data available.

Flow Time: No data available.

Solubility(ies)

Solubility in Water: Insoluble in water

Solubility (other): No data available.

Dissolution Rate: No data available.

Partition coefficient (n-octanol/water): No data available.

Dispersion Stability: No data available.

Hydraseal DPM Part B

Vapor pressure:	No data available.
Relative density:	No data available.
Density:	0,98 g/cm ³
Bulk density:	No data available.
Relative vapor density:	No data available.

9.2 Other information

VOC Content:	EC Directive 2004/42 < 20 g/l 2004/42/CE & UK SI 2012/1715/IIA(j)(500)
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SECTION 10: Stability and reactivity

10.1 Reactivity:	No data available.
10.2 Chemical Stability:	Material is stable under normal conditions.
10.3 Possibility of hazardous reactions:	No data available.
10.4 Conditions to avoid:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
10.5 Incompatible Materials:	Avoid contact with acids and oxidizing substances. Strong alkalis.
10.6 Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

SECTION 11: Toxicological information

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

Acute toxicity (list all possible routes of exposure)

Oral

Product:	ATEmix, 3.138,16 mg/kg
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Components:

4-tert-butylphenol	LD 50, Rat, Female, Male, > 2.000 mg/kg, 1 = reliable without restrictions, according to specific guideline, Key study
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Hydraseal DPM Part B

m-phenylenebis(methylamine) LD 50, 930 mg/kg, Summary

2,2,4(or 2,4,4)-trimethyl-1,6-hexanediamine LD 50, Rat, Male, 910 mg/kg, 2 = reliable with restrictions

ethylenediamine LD 50, Rat, Female, Male, 866 mg/kg, 2 = reliable with restrictions, according to specific guideline, Key study

Dermal

Product: ATEmix, 33.110,62 mg/kg

Components:

m-phenylenebis(methylamine) LD 50, Rat, > 3.100 mg/kg, 2 = reliable with restrictions, non-guideline study

ethylenediamine LD 50, Rabbit, 560 mg/kg, 2 = reliable with restrictions, non-guideline study, Experimental result, Key study

Inhalation

Product: ATEmix, 151,83 mg/l, Vapour

ATEmix, 16,91 mg/l, Dust and mist

Components:

m-phenylenebis(methylamine) LC 50, Rat, 4 h, 1,34 mg/l, Aerosol, Yes, 1 = reliable without restrictions, Aerosol, Key study
LC 50, Rat, 4 h, 1,16 mg/l, Aerosol, Yes, 1 = reliable without restrictions, Aerosol, Key study

ethylenediamine LC 50, Rat, 4 h, 6000 ppm, Vapor, No, 2 = reliable with restrictions, Vapor, Key study
LC 50, Rat, 8 h, 3000 ppm, Vapor, No, 2 = reliable with restrictions, Vapor, Key study

Hydraseal DPM Part B

Repeated dose toxicity

Product: Not classified based on available data.

Components:

4-tert-butylphenol	NOAEL Rat, Female, Male, Oral, 90 d, 200 mg/kg, Oral Experimental study, Key
2,2,4(or 2,4,4)-trimethyl-1,6-hexanediamine	NOAEL Rat, Female, Male, Oral, 13 Weeks, 10 mg/kg, Oral Experimental result, Key study LOAEL Rat, Female, Male, Oral, 13 Weeks, 60 mg/kg, Oral Experimental result, Key study
ethylenediamine	LOAEL Rat, Female, Male, Oral, 3 Months, 114 mg/kg, Oral Experimental result, Key study NOAEL Rat, Female, Male, Oral, 3 Months, 22 mg/kg, Oral Experimental result, Key study

Skin Corrosion/Irritation

Product: Not classified based on available data.

Components:

4-tert-butylphenol	Category 2, in vivo, Rabbit, 7 - 14 d, Experimental study, Key
m-phenylenebis(methylamine)	Corrosive, in vivo, Mouse, 4 h, Experimental study, Weight of evidence Corrosive, in vivo, Mouse, 4 h, Experimental study, Weight of evidence Corrosive, in vivo, Rat, 4 h, Experimental study, Weight of evidence Corrosive, in vivo, Rat, 4 h, Experimental study, Weight of evidence
ethylenediamine	Category 1B, in vivo, Rabbit, 24 - 72 h, Experimental result, Key study

Serious Eye Damage/Eye Irritation

Product: Not classified based on available data.

Components:

Hydraseal DPM Part B

4-tert-butylphenol	Category 1, in vivo, Rabbit, 72 h
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ethylenediamine	Category 1, in vivo, Rabbit, 24 - 72 h
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Respiratory or Skin Sensitization

Product: Not classified based on available data.

Components:

4-tert-butylphenol	Skin sensitization:, in vivo, Guinea pig, Not Classified
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ethylenediamine	Skin sensitization:, in vivo, Guinea pig, Category 1
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Carcinogenicity

Product: Not classified based on available data.

Germ Cell Mutagenicity**In vitro**

Product: Not classified based on available data.

In vivo

Product: Not classified based on available data.

Reproductive toxicity

Product: Not classified based on available data.

Specific Target Organ Toxicity - Single Exposure

Product: Not classified based on available data.

Specific Target Organ Toxicity - Repeated Exposure

Product: Not classified based on available data.

Aspiration Hazard

Hydraseal DPM Part B

Product: Not classified based on available data.

11.2 Information on other hazards

Endocrine disrupting properties

Product: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.;

Other information

Product: No data available.

SECTION 12: Ecological information

12.1 Toxicity:

Acute hazards to the aquatic environment:

Fish

Product: Not classified based on available data.

Components:

4-tert-butylphenol	LC 50, Oncorhynchus mykiss, 96 h, > 1 mg/lsemi-static
m-phenylenebis(methylamine)	LC 50, Leuciscus idus, 96 h, 75 mg/lsemi-static LC 50, Oryzias latipes, 96 h, 87,6 mg/lsemi-static LC 50, Oncorhynchus mykiss, 96 h, > 100 mg/lStatic LC 50, Leuciscus idus, 96 h, 75 mg/lsemi-static LC 0, Oncorhynchus mykiss, 96 h, > 100 mg/lStatic
2,2,4(or 2,4,4)-trimethyl-1,6-hexanediamine	LC 50, Leuciscus idus, 48 h, 174 mg/lStatic
ethylenediamine	LC 50, Poecilia reticulata, 96 h, 640 mg/lsemi-static

Aquatic Invertebrates

Product: Not classified based on available data.

Components:

4-tert-butylphenol	EC 50, Daphnia magna, 24 h, 8,1 mg/lStatic, Experimental result, Key study
m-phenylenebis(methylamine)	EC 50, Daphnia magna, 48 h, 15,2 mg/lStatic, Experimental result, Key study
	EC 50, Daphnia magna, 48 h, 15,2 mg/lStatic, experimental result

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	Experimental result, Key study
	EC 50, Daphnia magna, 24 h, 35,1 mg/l Static, Experimental result, Key study
	EC 50, Daphnia magna, 24 h, 24 mg/l Static, Experimental result, Supporting study
	EC 100, Daphnia magna, 24 h, 50 mg/l Static, Experimental result, Key study
2,2,4(or 2,4,4)-trimethyl-1,6-hexanediamine	EC 50, Daphnia magna, 24 h, 31,5 mg/l Static, Experimental result, Key study
ethylenediamine	EC 50, Daphnia magna, 48 h, 16,7 mg/l Static, Experimental result, Key study

Toxicity to Aquatic Plants

Product: Not classified based on available data.

Toxicity to microorganisms

Product: Not classified based on available data.

Chronic hazards to the aquatic environment:

Fish

Product: Not classified based on available data.

Components:

4-tert-butylphenol	NOEL, Pimephales promelas, 10 µg/l, flow-through, experimental result
2,2,4(or 2,4,4)-trimethyl-1,6-hexanediamine	NOEL, Danio rerio, >= 10,9 mg/l, flow-through, experimental result
ethylenediamine	NOEL, Gasterosteus aculeatus, > 10 mg/l, semi-static, experimental result

Aquatic Invertebrates

Product: Not classified based on available data.

Components:

4-tert-butylphenol	EC 50, Daphnia magna, 2 mg/l, semi-static, experimental result Experimental result, Key study
m-phenylenebis(methylamine)	NOEC, Daphnia magna, 4,7 mg/l, semi-static, experimental result Experimental result, Key study LC 50, Daphnia magna, 6,77 mg/l, semi-static, experimental result Experimental result, Key study EC 50, Daphnia magna, 8,4 mg/l, semi-static, experimental result Experimental result, Key study
2,2,4(or 2,4,4)-trimethyl-1,6-hexanediamine	NOEC, Daphnia magna, 1,02 mg/l, semi-static, experimental result Experimental result, Key study NOEC, Daphnia magna, 0,16 mg/l, semi-static, experimental result Experimental result, Key study

Toxicity to microorganisms

Product: Not classified based on available data.

12.2 Persistence and Degradability

Biodegradation

Product: Not classified based on available data.

Hydraseal DPM Part B

Components:

4-tert-butylphenol	60 %, 28 d, Detected in water. Experimental result, Key study
m-phenylenebis(methylamine)	49 %, 28 d, Detected in water. Experimental result, Key study
	22 %, Detected in water. Experimental result, Supporting study
	21 %, Detected in water. Experimental result, Supporting study
	6 %, Detected in water. Experimental result, Supporting study
2,2,4(or 2,4,4)-trimethyl-1,6-hexanediamine	7 %, 28 d, Detected in water. Experimental result, Key study
ethylenediamine	95 %, 28 d, Detected in water. Experimental result, Key study

12.3 Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: Not classified based on available data.

Components:

4-tert-butylphenol	Cyprinus carpio, 20 - 43, Aquatic sediment Experimental result, Key study
m-phenylenebis(methylamine)	Cyprinus carpio, < 0,3, Aquatic sediment Experimental result, Weight of evidence

Partition Coefficient n-octanol / water (log Kow)

Product: Not classified based on available data.

12.4 Mobility in soil:

Product Not classified based on available data.

12.5 Results of PBT and vPvB assessment:

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

12.6 Endocrine disrupting properties:

Product: This substance/mixture contains components considered to have endocrine disrupting properties for environment , according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

Components:

4-tert-butylphenol This substance/mixture contains components considered to have endocrine disrupting properties for environment , according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

12.7 Other adverse effects:

Other hazards

Product: No data available.

Hydraseal DPM Part B

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information:	Dispose of waste and residues in accordance with local authority requirements.
Disposal methods:	This material and/or its container must be disposed of as hazardous waste.
Contaminated Packaging:	Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
<u>European Waste Codes</u>	
Unused product:	08 01 11*: waste paint and varnish containing organic solvents or other hazardous substances
Contaminated Packaging:	15 01 10*: packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

ADR

14.1 UN number or ID number:	UN 2735
14.2 UN Proper Shipping Name:	Amines, liquid, corrosive, n.o.s.(Trimethylhexamethylene diamine, m-Xylenediamine)
14.3 Transport Hazard Class(es)	
Class:	8
Label(s):	8
Classification Code:	C7
Hazard No. (ADR):	80
Tunnel restriction code:	(E)
14.4 Packing Group:	III
Limited quantity	5,00 L
Excepted quantity	E1
14.5 Environmental Hazards	
Environmentally Hazardous:	No
14.6 Special precautions for user:	None.

IMDG

14.1 UN number or ID number:	UN 2735
14.2 UN Proper Shipping Name:	Amines, liquid, corrosive, n.o.s.(Trimethylhexamethylene diamine, m-Xylenediamine)
14.3 Transport Hazard Class(es)	
Class:	8

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Label(s):	8
EmS No.:	F-A, S-B
14.4 Packing Group:	III
Limited quantity	005 L
Excepted quantity	E1
14.5 Environmental Hazards	
Marine Pollutant:	Yes
14.6 Special precautions for user:	None.

IATA

14.1 UN number or ID number:	UN 2735
14.2 UN Proper Shipping Name:	Amines, liquid, corrosive, n.o.s.(Trimethylhexamethylene diamine, m-Xylenediamine)
14.3 Transport Hazard Class(es)	
Class:	8
Label(s):	8
14.4 Packing Group:	III
Passenger and cargo aircraft :	852
Limited quantity	None.
Excepted quantity	E1
14.5 Environmental Hazards	
Environmentally Hazardous:	No
14.6 Special precautions for user:	None.
Passenger and cargo aircraft:	Allowed. 852
Cargo aircraft only :	Allowed. 856

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

EU Regulations

Regulation 2024/590/EC on substances that deplete the ozone layer, Annex I, Controlled Substances: None present or none present in regulated quantities.

Regulation 2024/590/EC on substances that deplete the ozone layer, Annex II, New Substances: None present or none present in regulated quantities.

EU. REACH Annex XIV, Substances Subject to Authorization: None present or none present in regulated quantities.

EU. Regulation 2019/1021/EU on persistent organic pollutants (POPs) (recast), as amended: None present or none present in regulated quantities.

EU. Directive 2010/75/EU on Industrial Emissions (IPPC), Annex II, L 334/17:

Chemical name	CAS-No.
4-tert-butylphenol	98-54-4

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ethylenediamine	107-15-3
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Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended: None present or none present in regulated quantities.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended: None present or none present in regulated quantities.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended: None present or none present in regulated quantities.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended: None present or none present in regulated quantities.

EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC):

Chemical name	CAS-No.	Concentration	Additional Information
4-tert-butylphenol	98-54-4	1,0 - 10%	Endocrine disrupting properties (Article 57(f) - environment)
ethylenediamine	107-15-3	1,0 - 10%	Respiratory sensitising properties (Article 57(f) - human health)

EU. REACH Annex XVII, Substances subject to restriction on marketing and use:

Chemical name	CAS-No.	Number on list
4-tert-butylphenol	98-54-4	3, 75, 75, 75, 75
ethylenediamine	107-15-3	40, 75, 75, 3

Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work.: None present or none present in regulated quantities.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding.:

Chemical name	CAS-No.	Concentration
4-tert-butylphenol	98-54-4	1,0 - 10%

EU. Directive 2012/18/EU on major accident hazards involving dangerous substances, Annex I, as amended:

Classification	Lower-tier Requirements	Upper-tier Requirements
E2. Hazardous to the aquatic environment	200 t	500 t

EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants: None present or none present in regulated quantities.

EU. Restricted Explosives Precursors: Annex I, Regulation 2019/1148/EU on Explosives Precursors (EUEXPL1D): None present or none present in regulated quantities.

EU. Reportable (Annex II) Explosives Precursors, Regulation 2019/1148/EU on Explosives Precursors

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(EUEXPL2D): None present or none present in regulated quantities.

EU. Reportable (Annex II) Explosives Precursors, Regulation 2019/1148/EU on Explosives Precursors (EUEXPL2L): None present or none present in regulated quantities.

National Regulations

- 92/85/EEC:
Employment restrictions concerning pregnant and lactating women must be observed.
- 94/33/EC:
Employment restrictions concerning young persons must be observed.

15.2 Chemical safety assessment: No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Date of first report version: 11.12.2025

Revision Date: 11.12.2025

Version #: 1.0

Abbreviations and acronyms:

SWO:	Sweden. OELs. Occupational Exposure Limit Values in line with Annex I to AFS 2023:14
SWO / SKIN_DES:	Skin designation
SWO / KTV:	Short Term Exposure Limit (STEL)
SWO / NGV:	Time Weighted Average (TWA)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; EIGA - European Industrial Gases Association; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative)

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Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Key literature references and sources for data: No data available.

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

Classification according to Regulation (EC) No 1272/2008 as amended.	Classification procedure
Skin corrosion, Category 1B	Calculation method
Serious eye damage, Category 1	Calculation method
Skin sensitizer, Category 1	Calculation method
Respiratory sensitizer, Category 1	Calculation method
Reproductive toxicity, Category 2	Calculation method
Chronic hazards to the aquatic environment, Category 2	Calculation method

Full text of H-Statements

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H361f	Suspected of damaging fertility.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Training information: No data available.

Disclaimer: This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.

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