

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 6 Aug 2025

Print date: 15 Jan 2026

Version: 1.0

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Lithomex L50 B-Kp.

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

1.1. Product identifier

Trade name/designation:

Lithomex L50 B-Kp.

Article No.:

1231

UFI:

RSKS-A343-SHCP-R8SX

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

Use of the substance/mixture:

Hardener

1.3. Details of the supplier of the safety data sheet

Supplier:

Lithomex A/S

Levedjdal 14D

8740 Braestrup

Denmark

Telephone: +45 86 22 11 22

E-mail: info@lithomex.dk

1.4. Emergency telephone number

24h: +45 82 12 12 12 (åbent 24 timer i døgnet)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation (Skin Corr. 1B)	H314: Causes severe skin burns and eye damage.	Calculation method.
Respiratory or skin sensitisation (Skin Sens. 1)	H317: May cause an allergic skin reaction.	Calculation method.
Serious eye damage/eye irritation (Eye Dam. 1)	H318: Causes serious eye damage.	Calculation method.
Reproductive toxicity (Repr. 2)	H361: Suspected of damaging fertility or the unborn child.	Calculation method.
STOT-repeated exposure (STOT RE 1)	H372: Causes damage to organs through prolonged or repeated exposure.	Calculation method.
Hazardous to the aquatic environment (Aquatic Chronic 2)	H411: Toxic to aquatic life with long lasting effects.	Calculation method.

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2.2. Label elements

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

Hazard pictograms:



GHS05

Corrosion



GHS07

Exclamation mark



GHS08

Health hazard



GHS09

Environment

Signal word: Danger

Hazard components for labelling:

3-aminomethyl-3,5,5-trimethylcyclohexylamine; Reaction mass of (1-phenylethyl)phenols and bis-(1-phenylethyl)phenols; 2-piperazin-1-ylethylamine; Polyoxypropylendiamine

Hazard statements for health hazards

H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H361	Suspected of damaging fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.

Hazard statements for environmental hazards

H411	Toxic to aquatic life with long lasting effects.
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Supplemental hazard information: none

Precautionary statements Prevention

P260	Do not breathe vapours and spray.
P280	Wear protective gloves and eye protection/face protection.

Precautionary statements Response

P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
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.
P310	Immediately call a POISON CENTER/doctor/Emergency telephone number.

Special rules for supplemental label elements for certain mixtures:

56,0 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (inhalative).

2.3. Other hazards

Other adverse effects:

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 9046-10-0 EC No.: 618-561-0 REACH No.: 01-2119557899-12	Polyoxypropylenediamine Aquatic Chronic 3 (H412), Eye Dam. 1 (H318), Skin Corr. 1C (H314)  Danger Acute Toxicity Estimate ATE (oral) 2,855 mg/L ATE (dermal) 2,980 mg/L	20 - < 40 weight-%
CAS No.: 2855-13-2 EC No.: 220-666-8 Index No.: 612-067-00-9 REACH No.: 01-2119514687-32	3-aminomethyl-3,5,5-trimethylcyclohexylamine Acute Tox. 4 (H302), Eye Dam. 1 (H318), Skin Corr. 1B (H314), Skin Sens. 1A (H317)   Danger Specific concentration limit (SCL) Skin Sens. 1A; H317: C ≥ 0.001% Acute Toxicity Estimate ATE (oral) 1,030 mg/kg ATE (dermal) 1,840 mg/kg	20 - < 40 weight-%
CAS No.: 61788-44-1 EC No.: 262-975-0 REACH No.: 01-2119980970-27	Reaction mass of (1-phenylethyl)phenols and bis-(1-phenylethyl)phenols Aquatic Chronic 2 (H411), Skin Irrit. 2 (H315), Skin Sens. 1A (H317)   Warning Acute Toxicity Estimate ATE (oral) > 2,000 mg/L ATE (dermal) > 2,000 mg/L	20 - < 35 weight-%
CAS No.: 140-31-8 EC No.: 205-411-0 REACH No.: 01-2119471486-30	2-piperazin-1-ylethylamine Acute Tox. 3 (H311), Acute Tox. 4 (H302), Aquatic Chronic 3 (H412), Eye Dam. 1 (H318), Repr. 2 (H361), STOT RE 1 (H372), Skin Corr. 1B (H314), Skin Sens. 1 (H317)    Danger Acute Toxicity Estimate ATE (oral) 2,140 mg/kg ATE (dermal) 866 mg/kg	6 - < 12 weight-%
CAS No.: 90-72-2 EC No.: 202-013-9 Index No.: 603-069-00-0 REACH No.: 01-2119560597-27	2,4,6-tris(dimethylaminomethyl)phenol Acute Tox. 4 (H302), Eye Dam. 1 (H318), Skin Corr. 1C (H314)   Danger Acute Toxicity Estimate ATE (oral) 2,169 mg/kg	6 - < 12 weight-%

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

Remove victim out of the danger area. Put victim at rest, cover with a blanket and keep warm. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove contaminated, saturated clothing immediately. When in doubt or if symptoms are observed, get medical advice.

Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician.

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.

After eye contact:

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

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Following ingestion:

Call a physician immediately.

Self-protection of the first aider:

No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator.

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

Harmful if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin reaction.

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

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Carbon dioxide (CO2)

Extinguishing powder

Water spray jet

Fight larger fires with water spray or alcohol resistant foam.

Unsuitable extinguishing media:

Full water jet

5.2. Special hazards arising from the substance or mixture

During heating or in case of fire, toxic gases is possible.

Hazardous combustion products:

Carbon dioxide (CO2)

Carbon monoxide

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Use personal protection equipment. Provide adequate ventilation.

Protective equipment:

Personal protection equipment: see section 8

Emergency procedures:

Remove all sources of ignition. Remove persons to safety. Provide adequate ventilation.

6.1.2. For emergency responders

Personal protection equipment:

Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

6.3. Methods and material for containment and cleaning up

For containment:

Suitable material for taking up: Chemical binding agents, containing acids, Kieselguhr, Sand, Universal binder

For cleaning up:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Provide adequate ventilation.

Other information:

Treat the recovered material as prescribed in the section on waste disposal.

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6.4. Reference to other sections

Safe handling: see section 7 ,

Personal protection equipment: see section 8

Disposal: see section 13

6.5. Additional information

Clear spills immediately.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Keep container tightly closed. Avoid contact with skin, eyes and clothes.

Fire prevent measures:

No special fire protection measures are necessary.

Environmental precautions:

Provide for retaining containers, e.g. floor pan without outflow.

Advices on general occupational hygiene

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500. When using do not eat, drink, smoke, sniff. Used working clothes should not be worn outside the work area. Wash hands before breaks and after work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

No special measures are necessary.

Packaging materials:

Keep/Store only in original container.

Requirements for storage rooms and vessels:

Shafts and sewers must be protected from entry of the product.

Hints on storage assembly:

Do not store together with: Food and feedingstuffs

Storage class (TRGS 510, Germany):

8A - Combustible corrosive substances

Further information on storage conditions:

Recommended storage temperature: 15 °C - 20 °C

7.3. Specific end use(s)

Industrial sector specific solutions:

Epoxide resin products, CMR characteristics, sensitizing, low solvent content or totally solid

GISCODE:

RE90

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

No data available

8.1.2. Biological limit values

No data available

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8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
Polyoxypropylendiamine CAS No.: 9046-10-0 EC No.: 618-561-0	1.36 mg/cm ³	① DNEL worker ② Acute - inhalation, systemic effects
Polyoxypropylendiamine CAS No.: 9046-10-0 EC No.: 618-561-0	2.5 mg/kg bw/day	① DNEL worker ② Long-term - dermal, local effects
3-aminomethyl-3,5,5-trimethylcyclohexylamine CAS No.: 2855-13-2 EC No.: 220-666-8	0.073 mg/cm ³	① DNEL worker ② Long-term - inhalation, local effects
Reaction mass of (1-phenylethyl)phenols and bis-(1-phenylethyl)phenols CAS No.: 61788-44-1 EC No.: 262-975-0	4.11 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
2-piperazin-1-ylethylamine CAS No.: 140-31-8 EC No.: 205-411-0	10.6 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects

Substance name	PNEC Value	① PNEC type
Polyoxypropylendiamine CAS No.: 9046-10-0 EC No.: 618-561-0	0.015 mg/L	① PNEC aquatic, freshwater
3-aminomethyl-3,5,5-trimethylcyclohexylamine CAS No.: 2855-13-2 EC No.: 220-666-8	0.06 mg/L	① PNEC aquatic, freshwater
3-aminomethyl-3,5,5-trimethylcyclohexylamine CAS No.: 2855-13-2 EC No.: 220-666-8	0.006 mg/L	① PNEC aquatic, marine water
2-piperazin-1-ylethylamine CAS No.: 140-31-8 EC No.: 205-411-0	0.058 mg/L	① PNEC aquatic, freshwater
2-piperazin-1-ylethylamine CAS No.: 140-31-8 EC No.: 205-411-0	0.0058 mg/L	① PNEC aquatic, marine water
2-piperazin-1-ylethylamine CAS No.: 140-31-8 EC No.: 205-411-0	250 mg/L	① PNEC sewage treatment plant
2-piperazin-1-ylethylamine CAS No.: 140-31-8 EC No.: 205-411-0	215 mg/kg	① PNEC sediment, freshwater
2-piperazin-1-ylethylamine CAS No.: 140-31-8 EC No.: 205-411-0	215 mg/kg	① PNEC sediment, marine water
2-piperazin-1-ylethylamine CAS No.: 140-31-8 EC No.: 205-411-0	42.9 mg/kg	① PNEC soil, freshwater
2,4,6-tris(dimethylaminomethyl)phenol CAS No.: 90-72-2 EC No.: 202-013-9	0.084 mg/L	① PNEC aquatic, freshwater
2,4,6-tris(dimethylaminomethyl)phenol CAS No.: 90-72-2 EC No.: 202-013-9	0.0084 mg/L	① PNEC aquatic, marine water

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8.2. Exposure controls

8.2.1. Appropriate engineering controls

See section 7. No additional measures necessary.

8.2.2. Personal protection equipment



Eye/face protection:

Eye glasses with side protection

DIN-/EN-Norms EN 166

Skin protection:

Hand protection

By short-term hand contact: PVC (polyvinyl chloride)

By long-term hand contact:

Suitable material: NBR (Nitrile rubber), FKM (fluoro rubber)

Thickness of the glove material: $\geq 0,5$ mm

Unsuitable material: Thick fabric., Chromate-free leather

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. Breakthrough times and swelling properties of the material must be taken into consideration. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Tested protective gloves must be worn: EN ISO 374

Body protection:

Suitable protective clothing: Protective clothing

Respiratory protection:

Respiratory protection necessary at: insufficient ventilation

short-term: Recommended Filter type: A-P2

Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (DGUV 112-190).

8.2.3. Environmental exposure controls

No data available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Form: Liquid

Colour: gelblich

Odour: aminartig

flammability: Yes

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	11.4	20 °C	
Melting point	No data available		
Freezing point	No data available		
Initial boiling point and boiling range	> 200 °C		
Decomposition temperature	not applicable		
Flash point	> 100 °C		
Evaporation rate	No data available		
Auto-ignition temperature	No data available		
Upper/lower flammability or explosive limits	not applicable		

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Parameter	Value	at °C	① Method ② Remark
Vapour pressure	<i>No data available</i>		
Vapour density	<i>not applicable</i>		
Density	0.99 g/cm ³	23 °C	
Relative density	<i>not applicable</i>		
Bulk density	<i>not applicable</i>		
Water solubility	Immiscible		
Partition coefficient: n-octanol/water	<i>not applicable</i>		
Dynamic viscosity	<i>No data available</i>		
Kinematic viscosity	<i>not applicable</i>		

9.2. Other information

There is no additional information.

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

reacts with: Acid, concentrated, Alkali (lye), concentrated, Oxidising agent, strong

10.4. Conditions to avoid

Protect against: Frost

Protect from direct sunlight.

10.5. Incompatible materials

Alkali (lye), concentrated

Oxidising agent, strong

Acid, concentrated

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

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

Reaction mass of (1-phenylethyl)phenols and bis-(1-phenylethyl)phenols CAS No.: 61788-44-1

EC No.: 262-975-0

LD₅₀ oral: >2,000 mg/L (Rat)

LD₅₀ dermal: >2,000 mg/L (Rabbit)

Polyoxypropylendiamine CAS No.: 9046-10-0 EC No.: 618-561-0

LD₅₀ oral: 2,855 mg/L (Rat)

LD₅₀ dermal: 2,980 mg/L (Rabbit)

3-aminomethyl-3,5,5-trimethylcyclohexylamine CAS No.: 2855-13-2 EC No.: 220-666-8

ATE (oral)¹: 1,030 mg/kg

LD₅₀ oral: 1,030 mg/kg (Rat)

LD₅₀ dermal: 1,840 mg/kg (Rabbit)

2-piperazin-1-ylethylamine CAS No.: 140-31-8 EC No.: 205-411-0

LD₅₀ oral: 2,140 mg/kg (Rat)

LD₅₀ dermal: 866 mg/kg (Rabbit)

2,4,6-tris(dimethylaminomethyl)phenol CAS No.: 90-72-2 EC No.: 202-013-9

LD₅₀ oral: 2,169 mg/kg (rat)

¹: Acute Toxicity Estimate. Harmonised (legal) classification.

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Acute oral toxicity:

Based on available data, the classification criteria are not met.

Acute dermal toxicity:

Based on available data, the classification criteria are not met.

Acute inhalation toxicity:

Based on available data, the classification criteria are not met.

Skin corrosion/irritation:

Causes severe skin burns and eye damage.

Serious eye damage/irritation:

Causes serious eye damage.

Respiratory or skin sensitisation:

May cause an allergic skin reaction.

Germ cell mutagenicity:

Based on available data, the classification criteria are not met.

Carcinogenicity:

Based on available data, the classification criteria are not met.

Reproductive toxicity:

Suspected of damaging fertility or the unborn child.

STOT-single exposure:

Based on available data, the classification criteria are not met.

STOT-repeated exposure:

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard:

Based on available data, the classification criteria are not met.

11.2. Information on other hazards

Endocrine disrupting properties:

The mixture contains a substance due to endocrine disrupting properties (but without classification).

SECTION 12: Ecological information

12.1. Toxicity

Reaction mass of (1-phenylethyl)phenols and bis-(1-phenylethyl)phenols	CAS No.: 61788-44-1
EC No.: 262-975-0	

LC₅₀: 14.8 mg/L 4 d (fish)

EC₅₀: 3.14 mg/L 3 d (Algae/water plant)

EC₅₀: 1 - 10 mg/L 2 d (crustaceans)

Polyoxypropylendiamine	CAS No.: 9046-10-0	EC No.: 618-561-0
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LC₅₀: 772.14 mg/L 4 d (fish, Cyprinodon variegatus) OECD Guideline 203 (Fish, Acute Toxicity Test)

EC₅₀: 2.1 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum))

EC₅₀: >15 mg/L 4 d (fish, Oncorhynchus mykiss (previous name: Salmo gairdneri))

EC₅₀: 80 mg/L 2 d (crustaceans, Daphnia magna)

NOEC: 0.32 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum))

NOEC: 15 mg/L 4 d (fish, Oncorhynchus mykiss (previous name: Salmo gairdneri))

NOEC: 18 mg/L 2 d (crustaceans, Daphnia magna)

IC₅₀: 141.72 mg/L 3 d (Algae/water plant, Skeletonema costatum) ISO 10253 (Water quality - Marine Algal Growth Inhibition Test with Skeletonema costatum and Phaeodactylum tricornutum)

LOEC: 1 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum))

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3-aminomethyl-3,5,5-trimethylcyclohexylamine CAS No.: 2855-13-2 EC No.: 220-666-8

LC₅₀: 110 mg/L 4 d (fish, *Danio rerio* (zebrafish))

LC₅₀: 110 mg/L 4 d (*Ileuciscus idus*)

LC₅₀: >15 mg/L

EC₅₀: 50 mg/L 3 d (Algae/water plant, *Scenedesmus subspicatus*)

EC₅₀: 23 mg/L 2 d (crustaceans, *Daphnia magna* (Big water flea))

EC₅₀: 23 mg/L (crustaceans, *Daphnia magna*)

ErC₅₀: >50 mg/L

2-piperazin-1-ylethylamine CAS No.: 140-31-8 EC No.: 205-411-0

LC₅₀: 58 mg/L 2 d (crustaceans, *Daphnia magna* (Big water flea))

LC₅₀: 2,190 mg/L 4 d (fish, *Pimephales promelas*)

EC₅₀: >1,000 mg/L 3 d (Algae/water plant, *Pseudokirchneriella subcapitata* (previous names: *Raphidocelis subcapitata*, *Selenastrum capricornutum*)) OECD Guideline 201 (Alga, Growth Inhibition Test)

EC₅₀: 58 mg/L 2 d (crustaceans, *Daphnia magna*) OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

NOEC: 1,030 mg/L 4 d (fish, *Pimephales promelas*)

NOEC: 10 mg/L 2 d (crustaceans, *Daphnia magna*) OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

EC₅₀: 58 mg/L 2 d (*Daphnia Magna*)

LC₅₀: 2,190 mg/L 4 d (*Pimephales Promelas*)

2,4,6-tris(dimethylaminomethyl)phenol CAS No.: 90-72-2 EC No.: 202-013-9

LC₅₀: >100 mg/L 4 d (fish, *Cyprinus carpio*) OECD Guideline 203 (Fish, Acute Toxicity Test)

EC₅₀: 25.5 mg/L 3 d (Algae/water plant, *Pseudokirchneriella subcapitata* (previous names: *Raphidocelis subcapitata*, *Selenastrum capricornutum*))

EC₅₀: >100 mg/L 2 d (crustaceans, *Daphnia magna*) OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

NOEC: 1.13 mg/L 3 d (Algae/water plant, *Pseudokirchneriella subcapitata* (previous names: *Raphidocelis subcapitata*, *Selenastrum capricornutum*))

Aquatic toxicity:

Toxic to aquatic life with long lasting effects.

Additional ecotoxicological information:

Do not allow uncontrolled discharge of product into the environment.

12.2. Persistence and degradability

Additional information:

The product has not been tested.

12.3. Bioaccumulative potential

Polyoxypropylendiamine CAS No.: 9046-10-0 EC No.: 618-561-0

Log K_{ow}: 1.34

3-aminomethyl-3,5,5-trimethylcyclohexylamine CAS No.: 2855-13-2 EC No.: 220-666-8

Log K_{ow}: 1.9

2-piperazin-1-ylethylamine CAS No.: 140-31-8 EC No.: 205-411-0

Log K_{ow}: 2.9

Bioconcentration factor (BCF): ≤ 6.3 Species: *Cyprinus carpio*

Partition coefficient: n-octanol/water:

not applicable

Accumulation / Evaluation:

The product has not been tested.

12.4. Mobility in soil

The product has not been tested.

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12.5. Results of PBT and vPvB assessment

Reaction mass of (1-phenylethyl)phenols and bis-(1-phenylethyl)phenols CAS No.: 61788-44-1
EC No.: 262-975-0

Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

Polyoxypropylendiamine CAS No.: 9046-10-0 EC No.: 618-561-0

Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

3-aminomethyl-3,5,5-trimethylcyclohexylamine CAS No.: 2855-13-2 EC No.: 220-666-8

Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

2-piperazin-1-ylethylamine CAS No.: 140-31-8 EC No.: 205-411-0

Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

2,4,6-tris(dimethylaminomethyl)phenol CAS No.: 90-72-2 EC No.: 202-013-9

Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6. Endocrine disrupting properties

The mixture contains a substance due to endocrine disrupting properties (but without classification).

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of waste according to applicable legislation.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Directive 2008/98/EC (Waste Framework Directive)

HP 5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP 8	Corrosive
HP 10	Toxic for reproduction
HP 13	Sensitising
HP 14	Ecotoxic

Waste treatment options

Appropriate disposal / Product:

Dispose of waste according to applicable legislation. Delivery to an approved waste disposal company.

Appropriate disposal / Package:

Handle contaminated packages in the same way as the substance itself.

Other disposal recommendations:

Delivery to an approved waste disposal company.

13.2. Additional information

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
UN 2735	UN 2735	UN 2735	UN 2735
14.2. UN proper shipping name			
AMINES, LIQUID, CORROSIVE, N.O.S. (Polyoxypropylendiamine, 3-aminomethyl-3,5,5- trimethylcyclohexylamine)	AMINES, LIQUID, CORROSIVE, N.O.S. (Polyoxypropylendiamine, 3-aminomethyl-3,5,5- trimethylcyclohexylamine)	AMINES, LIQUID, CORROSIVE, N.O.S. (Polyoxypropylendiamine, 3-aminomethyl-3,5,5- trimethylcyclohexylamine, Phenol, styrenated)	AMINES, LIQUID, CORROSIVE, N.O.S. (Polyoxypropylendiamine, 3-aminomethyl-3,5,5- trimethylcyclohexylamine)

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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.3. Transport hazard class(es)			
 8	 8	 8	 8
14.4. Packing group			
II	II	II	II
14.5. Environmental hazards			
			Marine pollutant
14.6. Special precautions for user			
Special Provisions: 274	Special Provisions: 274	Special Provisions: 274	Special Provisions: A3
Limited quantity (LQ): 1 L	Limited quantity (LQ): 1 L	Limited quantity (LQ): 1 L	Limited quantity (LQ): Y840
Excepted Quantities (EQ): E2	Excepted Quantities (EQ): E2	Excepted Quantities (EQ): E2	Excepted Quantities (EQ): E2
Hazard identification number (Kemler No.): 80	Classification code: C7	EmS-No.: F-A, S-B	
Classification code: C7			
Tunnel restriction code: (E)			

14.7. Maritime transport in bulk according to IMO instruments

No transport as bulk according to IBC Code.

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Other regulations (EU):

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]: This product is not assigned to a hazard category.

Directive 2004/42/EC on the limitation of emissions of volatile organic compounds:

Volatile organic compound (VOC) content: 0 weight-%

15.1.2. National regulations

[DK] National regulations

Other regulations, restrictions and prohibition regulations

Lists of substances and processes that are considered to be carcinogenic

MAL-Code (Måleteknisk Arbejdshygienisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark): 5-5

15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

16.1. Indication of changes

not relevant

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16.2. Abbreviations and acronyms

See overview table at www.euphrac.eu

GefStoffV: Hazardous Substances Ordinance (Ordinance on Hazardous Substances, Germany)

DNEL (Derived No Effect Level) - Exposure limit below which a substance should be added after the Knowledge of science does not lead to any impairment of human health

PNEC (predicted no effect concentration) - predicted concentration of one usually environmentally hazardous substance, to which no environmental impact

BOELV (EU) - EU occupational exposure limit values

IOELV (EU) - EU workplace exposure limits IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the International Air Transport Association (IATA) ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the International Civil Aviation Organization (ICAO)

GHS: Globally Harmonized System of Classification and Labeling of Chemicals

AGW: Occupational exposure limit

TRGS: Technical Guideline Hazardous Substances

MAK Value - Maximum Workplace Concentration TWA - Time Weighted Average

STEL - Short-term exposure limit Occupational exposure limit - Permitted

Occupational exposure

STOT RE - Specific target organ toxicity (repeated exposure)

Acute Tox. - Acute toxicity

PBT - Substances that are persistent, bioaccumulating and toxic

vPvB - Substances that are very persistent and very bioaccumulative

ADR: Accord sur le transport des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant the transport of marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

16.3. Key literature references and sources for data

European Chemicals Agency (ECHA), ECHA CHEM Registered substances

OECD The Global Portal to Information on Chemical Substances (ChemPortal)

Institute for Occupational Safety and Health of the German Social Accident Insurance (IFA): GESTIS substance database and International limit values for chemical substances

Federal Environment Agency, Section IV 2.4: Documentation and Information Centre substances hazardous to water Rigoletto (catalog substances hazardous to water)

Substance name	Type	source of supply
Polyoxypropylendiamine CAS No.: 9046-10-0 EC No.: 618-561-0	LC ₅₀ ; EC ₅₀ ; NOEC; IC ₅₀ ; LOEC	Source: European Chemicals Agency, http://echa.europa.eu/
2-piperazin-1-ylethylamine CAS No.: 140-31-8 EC No.: 205-411-0	LC ₅₀ ; EC ₅₀ ; NOEC	Source: European Chemicals Agency, http://echa.europa.eu/
2,4,6-tris(dimethylaminomethyl)phenol CAS No.: 90-72-2 EC No.: 202-013-9	LC ₅₀ ; EC ₅₀ ; NOEC	Source: European Chemicals Agency, http://echa.europa.eu/

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation (Skin Corr. 1B)	H314: Causes severe skin burns and eye damage.	Calculation method.
Respiratory or skin sensitisation (Skin Sens. 1)	H317: May cause an allergic skin reaction.	Calculation method.
Serious eye damage/eye irritation (Eye Dam. 1)	H318: Causes serious eye damage.	Calculation method.
Reproductive toxicity (Repr. 2)	H361: Suspected of damaging fertility or the unborn child.	Calculation method.

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Hazard classes and hazard categories	Hazard statements	Classification procedure
STOT-repeated exposure (STOT RE 1)	H372: Causes damage to organs through prolonged or repeated exposure.	Calculation method.
Hazardous to the aquatic environment (Aquatic Chronic 2)	H411: Toxic to aquatic life with long lasting effects.	Calculation method.

16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	
H302	Harmful if swallowed.
H311	Toxic 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.
H361	Suspected of damaging fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

16.6. Training advice

No data available

16.7. Additional information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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