

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 A-Kp.

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

1.1. Product identifier

Trade name/designation:

Lithomex L50 A-Kp.

Article No.:

1230

UFI:

JFTP-8N6A-043C-X3CR

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

Use of the substance/mixture:

Pavement fixing mortar

1.3. Details of the supplier of the safety data sheet

Supplier:

Lithomex A/S

Levedjald 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 (<i>Skin Irrit. 2</i>)	H315: Causes skin irritation.	Calculation method.
Respiratory or skin sensitisation (<i>Skin Sens. 1</i>)	H317: May cause an allergic skin reaction.	Calculation method.
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	Calculation method.
Hazardous to the aquatic environment (<i>Aquatic Chronic 2</i>)	H411: Toxic to aquatic life with long lasting effects.	Calculation method.

2.2. Label elements

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

Hazard pictograms:



GHS07

Exclamation mark



GHS09

Environment

Signal word: Warning

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Hazard components for labelling:
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane; Bisphenol-F-epichlor hydrine epoxyresin; Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2); p-tert-butylphenyl 1-(2,3-epoxy)propyl ether

Hazard statements for health hazards	
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

Hazard statements for environmental hazards	
H411	Toxic to aquatic life with long lasting effects.

Supplemental hazard information	
EUH205	Contains epoxy constituents. May produce an allergic reaction.

Precautionary statements Prevention	
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves and eye protection/face protection.

Precautionary statements Response	
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321	Specific treatment (see on this label).
P362 + P364	Take off contaminated clothing and wash it before reuse.

Special rules for supplemental label elements for certain mixtures:
100,0 % 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.

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.: 1675-54-3 EC No.: 216-823-5 REACH No.: 01-2119456619-26-XXXX	2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane Aquatic Chronic 2 (H411), Eye Irrit. 2 (H319), Skin Irrit. 2 (H315), Skin Sens. 1 (H317)  Warning EUH205 Specific concentration limit (SCL) Eye Irrit. 2; H319: C ≥ 5% Skin Irrit. 2; H315: C ≥ 5% Acute Toxicity Estimate ATE (oral) 11,400 mg/kg ATE (dermal) 2,000 mg/kg	40 - < 75 weight-%
CAS No.: 28064-14-4 EC No.: 608-164-0 REACH No.: 01-2119454392-40	Bisphenol-F-epichlor hydrine epoxyresin Aquatic Chronic 2 (H411), Skin Irrit. 2 (H315), Skin Sens. 1 (H317)  Warning Acute Toxicity Estimate ATE (oral) > 2,000 mg/kg ATE (dermal) > 2,000 mg/kg	15 - < 30 weight-%

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Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 933999-84-9 EC No.: 618-939-5 REACH No.: 01-2119463471-41	Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2) Aquatic Chronic 3 (H412), Eye Irrit. 2 (H319), Skin Irrit. 2 (H315), Skin Sens. 1 (H317)  Warning Acute Toxicity Estimate ATE (oral) 8,500 mg/kg ATE (dermal) > 4,900 mg/kg	6 - < 12 weight-%
CAS No.: 3101-60-8 EC No.: 221-453-2 REACH No.: 01-2119959496-20	p-tert-butylphenyl 1-(2,3-epoxy)propyl ether Aquatic Chronic 2 (H411), Skin Sens. 1 (H317)   Warning Acute Toxicity Estimate ATE (oral) 10,000 mg/kg ATE (dermal) > 2,000 mg/kg	4 - < 9 weight-%
CAS No.: 2461-15-6 EC No.: 219-553-6 Index No.: 603-103-00-4	2-Ethylhexylglycidylether Skin Irrit. 2 (H315), Skin Sens. 1A (H317)  Warning Acute Toxicity Estimate ATE (oral) 5,000 mg/kg ATE (dermal) 2,000 mg/kg	4 - < 8 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.

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

Causes skin irritation. Causes eye irritation. 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.

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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.

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.

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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, sensitizing, low solvent content

GISCODE:

RE50

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

8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane CAS No.: 1675-54-3 EC No.: 216-823-5	0.75 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane CAS No.: 1675-54-3 EC No.: 216-823-5	3.6 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane CAS No.: 1675-54-3 EC No.: 216-823-5	0.75 mg/kg bw/day	① DNEL worker ② Long-term - oral, systemic effects
Bisphenol-F-epichlor hydrine epoxyresin CAS No.: 28064-14-4 EC No.: 608-164-0	29.39 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects

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Substance name	DNEL value	① DNEL type ② Exposure route
Bisphenol-F-epichlor hydrine epoxyresin CAS No.: 28064-14-4 EC No.: 608-164-0	104.15 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects

Substance name	PNEC Value	① PNEC type
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane CAS No.: 1675-54-3 EC No.: 216-823-5	3 µg/L	① PNEC aquatic, freshwater
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane CAS No.: 1675-54-3 EC No.: 216-823-5	0.3 µg/L	① PNEC aquatic, marine water
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane CAS No.: 1675-54-3 EC No.: 216-823-5	10 mg/L	① PNEC sewage treatment plant
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane CAS No.: 1675-54-3 EC No.: 216-823-5	0.5 mg/kg bw/day	① PNEC sediment, freshwater
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane CAS No.: 1675-54-3 EC No.: 216-823-5	0.5 mg/kg bw/day	① PNEC sediment, marine water
Bisphenol-F-epichlor hydrine epoxyresin CAS No.: 28064-14-4 EC No.: 608-164-0	0.003 mg/L	① PNEC aquatic, freshwater
Bisphenol-F-epichlor hydrine epoxyresin CAS No.: 28064-14-4 EC No.: 608-164-0	0.0003 mg/L	① PNEC aquatic, marine water

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.

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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: transparent

Odour: characteristic

flammability: Yes

Safety relevant basis data

Parameter	Value	① Method ② Remark
pH	<i>not applicable</i>	
Melting point	<i>No data available</i>	
Freezing point	<i>No data available</i>	
Initial boiling point and boiling range	<i>No data available</i>	
Decomposition temperature	<i>not applicable</i>	
Flash point	<i>No data available</i>	
Evaporation rate	<i>No data available</i>	
Auto-ignition temperature	<i>No data available</i>	
Upper/lower flammability or explosive limits	<i>not applicable</i>	
Vapour pressure	<i>No data available</i>	
Vapour density	<i>not applicable</i>	
Density	<i>No data available</i>	
Relative density	<i>not applicable</i>	
Bulk density	<i>not applicable</i>	
Water solubility	practically insoluble	
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

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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

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane CAS No.: 1675-54-3 EC No.: 216-823-5
LD₅₀ oral: 11,400 mg/kg (Rat)
LD₅₀ dermal: 2,000 mg/kg (Rat)
Bisphenol-F-epichlor hydrine epoxyresin CAS No.: 28064-14-4 EC No.: 608-164-0
LD₅₀ oral: >2,000 mg/kg (Rat)
LD₅₀ dermal: >2,000 mg/kg (Rat)
Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2) CAS No.: 933999-84-9 EC No.: 618-939-5
LD₅₀ oral: 8,500 mg/kg (Ratte)
LD₅₀ dermal: >4,900 mg/kg (Ratte)
p-tert-butylphenyl 1-(2,3-epoxy)propyl ether CAS No.: 3101-60-8 EC No.: 221-453-2
LD₅₀ oral: 10,000 mg/kg (rat)
LD₅₀ dermal: >2,000 mg/kg (rat)
2-Ethylhexylglycidylether CAS No.: 2461-15-6 EC No.: 219-553-6
LD₅₀ oral: 5,000 mg/kg (rat)
LD₅₀ dermal: 2,000 mg/kg (rat)

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 skin irritation.

Serious eye damage/irritation:

Causes serious eye irritation.

Respiratory or skin sensitisation:

Contains epoxy constituents. May produce an allergic reaction. 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:

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

STOT-single exposure:

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

STOT-repeated exposure:

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

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Aspiration hazard:

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

Additional information:

No data available

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

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane CAS No.: 1675-54-3

EC No.: 216-823-5

LC₅₀: 2.7 mg/L 2 d (fish, *Oncorhynchus mykiss* (previous name: *Salmo gairdneri*)) EPA-660/3-75-009

LC₅₀: 1.8 mg/L 3 d (fish, *Oncorhynchus mykiss* (previous name: *Salmo gairdneri*)) EPA-660/3-75-009

LC₅₀: 1.2 mg/L 4 d (fish, *Oncorhynchus mykiss* (previous name: *Salmo gairdneri*)) EPA-660/3-75-009

LC₅₀: 2.7 mg/L 2 d (crustaceans, *Daphnia magna*) EPA-660/3-75-009

EC₅₀: 9.1 mg/L 2 d (Algae/water plant, *Scenedesmus capricornutum*) EPA-660/3-75-009

EC₅₀: 9.4 mg/L 3 d (Algae/water plant, *Scenedesmus capricornutum*) EPA-660/3-75-009

EC₅₀: 1.1 mg/L 2 d (crustaceans, *Daphnia magna*) OECD Guideline 202 (*Daphnia* sp. Acute Immobilisation Test)

NOEC: 2.4 mg/L 3 d (Algae/water plant, *Scenedesmus capricornutum*) EPA-660/3-75-009

NOEC: 0.3 mg/L 21 d (crustaceans, *Daphnia magna*) OECD Guideline 211 (*Daphnia magna* Reproduction Test)

LOEC: 1 mg/L 21 d (crustaceans, *Daphnia magna*) OECD Guideline 211 (*Daphnia magna* Reproduction Test)

Bisphenol-F-epichlor hydrine epoxyresin CAS No.: 28064-14-4 EC No.: 608-164-0

LC₅₀: 2.54 mg/L 4 d (fish, *Leuciscus idus* (golden orfe))

EC₅₀: >1.8 mg/L 3 d (Algae/water plant, *Raphidocelis subcapitata* (previous names: *Pseudokirchneriella subcapitata*, *Selenastrum capricornutum*)) OECD Guideline 201 (Alga, Growth Inhibition Test)

NOEC: 0.3 mg/L 21 d (crustaceans, *Daphnia magna*) OECD Guideline 211 (*Daphnia magna* Reproduction Test)

LOEC: 1 mg/L 21 d (crustaceans, *Daphnia magna*) OECD Guideline 211 (*Daphnia magna* Reproduction Test)

Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2) CAS No.: 933999-84-9

EC No.: 618-939-5

LC₅₀: 30 mg/L

EC₅₀: 23.1 mg/L

EC₅₀: 678 mg/L

LC₅₀: 30 mg/L 4 d (*Oncorhynchus mykiss*)

LC₅₀: 30 mg/L 4 d (fish, *Oncorhynchus mykiss* (previous name: *Salmo gairdneri*)) OECD Guideline 203 (Fish, Acute Toxicity Test)

EC₅₀: 47 mg/L 2 d (*Daphnia magna*, *daphnia*)

EC₅₀: 23.1 mg/L 2 d (Algae/water plant, *Pseudokirchneriella subcapitata* (previous names: *Raphidocelis subcapitata*, *Selenastrum capricornutum*)) Data was obtained by the QSAR model Algae EC₅₀, Danish National Food Institute (MultiCASE platform), MultiCASE v. 2005

EC₅₀: 39 - 57 mg/L 2 d (crustaceans, *Daphnia magna*) OECD Guideline 202 (*Daphnia* sp. Acute Immobilisation Test)

IC₅₀: >100 mg/L

p-tert-butylphenyl 1-(2,3-epoxy)propyl ether CAS No.: 3101-60-8 EC No.: 221-453-2

LC₅₀: 7.5 mg/L 4 d (fish, *Oncorhynchus mykiss* (previous name: *Salmo gairdneri*)) OECD Guideline 203 (Fish, Acute Toxicity Test)

EC₅₀: 9 mg/L 3 d (Algae/water plant, *Raphidocelis subcapitata* (previous names: *Pseudokirchneriella subcapitata*, *Selenastrum capricornutum*)) OECD Guideline 201 (Alga, Growth Inhibition Test)

EC₅₀: 67.9 mg/L 2 d (crustaceans, *Daphnia magna*) OECD Guideline 202 (*Daphnia* sp. Acute Immobilisation Test)

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2-Ethylhexylglycidylether CAS No.: 2461-15-6 EC No.: 219-553-6

LC₅₀: >5,000 mg/L 4 d (fish, *Oncorhynchus mykiss* (previous name: *Salmo gairdneri*)) OECD Guideline 203 (Fish, Acute Toxicity Test)

NOEC: 500 mg/L 3 d (Algae/water plant, *Raphidocelis subcapitata* (previous names: *Pseudokirchneriella subcapitata*, *Selenastrum capricornutum*)) OECD Guideline 201 (Alga, Growth Inhibition Test)

NOEC: <5,000 mg/L 4 d (fish, *Oncorhynchus mykiss* (previous name: *Salmo gairdneri*)) OECD Guideline 203 (Fish, Acute Toxicity Test)

NOEC: 1.8 mg/L 2 d (crustaceans, *Daphnia magna*) OECD Guideline 202 (*Daphnia* sp. Acute Immobilisation Test)

IC₅₀: 843.75 mg/L 3 d (Algae/water plant, *Raphidocelis subcapitata* (previous names: *Pseudokirchneriella subcapitata*, *Selenastrum capricornutum*)) OECD Guideline 201 (Alga, Growth Inhibition Test)

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

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane CAS No.: 1675-54-3
EC No.: 216-823-5

Biodegradation: Yes, slowly

Bisphenol-F-epichlor hydrine epoxyresin CAS No.: 28064-14-4 EC No.: 608-164-0

Biodegradation: Yes, slowly

Additional information:

The product has not been tested.

12.3. Bioaccumulative potential

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane CAS No.: 1675-54-3
EC No.: 216-823-5

Log K_{OW}: 2.64

Bioconcentration factor (BCF): 3

Bisphenol-F-epichlor hydrine epoxyresin CAS No.: 28064-14-4 EC No.: 608-164-0

Log K_{OW}: 4

Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2) CAS No.: 933999-84-9
EC No.: 618-939-5

Log K_{OW}: 0.822

Bioconcentration factor (BCF): 3.57

p-tert-butylphenyl 1-(2,3-epoxy)propyl ether CAS No.: 3101-60-8 EC No.: 221-453-2

Log K_{OW}: 3.59

2-Ethylhexylglycidylether CAS No.: 2461-15-6 EC No.: 219-553-6

Log K_{OW}: 3.83

Bioconcentration factor (BCF): 355

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.

12.5. Results of PBT and vPvB assessment

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane CAS No.: 1675-54-3
EC No.: 216-823-5

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

Bisphenol-F-epichlor hydrine epoxyresin CAS No.: 28064-14-4 EC No.: 608-164-0

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

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Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2) CAS No.: 933999-84-9 EC No.: 618-939-5
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
p-tert-butylphenyl 1-(2,3-epoxy)propyl ether CAS No.: 3101-60-8 EC No.: 221-453-2
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
2-Ethylhexylglycidylether CAS No.: 2461-15-6 EC No.: 219-553-6
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 4	Irritant — skin irritation and eye damage
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.

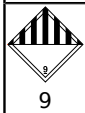
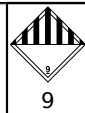
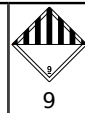
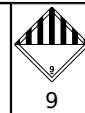
Other disposal recommendations:

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 3082	UN 3082	UN 3082	UN 3082
14.2. UN proper shipping name			
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisphenol-F-epichlor hydrine epoxyresin)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisphenol-F-epichlor hydrine epoxyresin)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisphenol-F-epichlor hydrine epoxyresin)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisphenol-F-epichlor hydrine epoxyresin)
14.3. Transport hazard class(es)			
			
14.4. Packing group			
III	III	III	III

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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.5. Environmental hazards			
		 MARINE POLLUTANT	
14.6. Special precautions for user			
Special Provisions: 274 335 375 601 650 Limited quantity (LQ): 5 L Excepted Quantities (EQ): E1 Hazard identification number (Kemler No.): 90 Classification code: M6 Tunnel restriction code: (-)	Special Provisions: 274 335 375 601 650 Limited quantity (LQ): 5 L Excepted Quantities (EQ): E1 Classification code: M6	Special Provisions: 274 335 375 969 Limited quantity (LQ): 5 L Excepted Quantities (EQ): E1 EmS-No.: F-A, S-F	Special Provisions: A97 A158 A197 A215 Limited quantity (LQ): Y964 Excepted Quantities (EQ): E1

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 Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark): 0-5

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

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

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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 le transport de 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
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane CAS No.: 1675-54-3 EC No.: 216-823-5	LC ₅₀ ; EC ₅₀ ; NOEC; LOEC	Source: European Chemicals Agency, http://echa.europa.eu/
Bisphenol-F-epichlor hydrine epoxyresin CAS No.: 28064-14-4 EC No.: 608-164-0	EC ₅₀ ; NOEC; LOEC	Source: European Chemicals Agency, http://echa.europa.eu/
Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2) CAS No.: 933999-84-9 EC No.: 618-939-5	LC ₅₀ ; EC ₅₀	Source: European Chemicals Agency, http://echa.europa.eu/
p-tert-butylphenyl 1-(2,3-epoxy)propyl ether CAS No.: 3101-60-8 EC No.: 221-453-2	LC ₅₀ ; EC ₅₀	Source: European Chemicals Agency, http://echa.europa.eu/
2-Ethylhexylglycidylether CAS No.: 2461-15-6 EC No.: 219-553-6	LC ₅₀ ; NOEC; IC ₅₀	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 (<i>Skin Irrit. 2</i>)	H315: Causes skin irritation.	Calculation method.
Respiratory or skin sensitisation (<i>Skin Sens. 1</i>)	H317: May cause an allergic skin reaction.	Calculation method.
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	Calculation method.
Hazardous to the aquatic environment (<i>Aquatic Chronic 2</i>)	H411: Toxic to aquatic life with long lasting effects.	Calculation method.

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

Hazard statements	
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Supplemental hazard information	
EUH205	Contains epoxy constituents. May produce an allergic reaction.

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.

Creator of the safety data sheet:
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