

SAFETY DATA SHEET

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

Revision date: 18 Dec 2025

Print date: 15 Jan 2026

Version: 1.1

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Lithomex L15 A-Kp. / Lithomex L20 A-Kp.

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

1.1. Product identifier

Trade name/designation:

Lithomex L15 A-Kp. / Lithomex L20 A-Kp.

Article No.:

1292, 1046

UFI:

8RX5-3VAG-Y3EH-YQQN

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

Use of the substance/mixture:

Binder

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

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 Irrit. 2)	H315: Causes skin irritation.	Calculation method.
Respiratory or skin sensitisation (Skin Sens. 1)	H317: May cause an allergic skin reaction.	Calculation method.
Serious eye damage/eye irritation (Eye Irrit. 2)	H319: Causes serious eye irritation.	Calculation method.
Hazardous to the aquatic environment (Aquatic Chronic 2)	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; 2-Ethylhexylglycidylether; 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.
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Supplemental hazard information: none

Precautionary statements Prevention

P261	Avoid breathing vapours and 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:

1,7 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (dermal).

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 - < 35 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	6 - < 12 weight-%

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Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
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	2 - < 4 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 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:

Wash immediately with: 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. In case of eye irritation consult an ophthalmologist.

Following ingestion:

Call a physician immediately.

Self-protection of the first aider:

First aider: Pay attention to self-protection!

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

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.

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

Dry extinguishing powder

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 monoxide

Carbon dioxide (CO2)

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.

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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. Avoid contact with skin, eyes and clothes. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Protective equipment:

Wear breathing apparatus if exposed to vapours/dusts/aerosols. 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:

Use appropriate respiratory protection.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

For containment:

Remove from the water surface (e.g. skimming, sucking).

For cleaning up:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal.

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. Use appropriate container to avoid environmental contamination.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Avoid contact with skin, eyes and clothes.

Provide adequate ventilation. In case of inadequate ventilation wear respiratory protection.

Wear personal protection equipment (refer to section 8).

Fire prevent measures:

No special fire protection measures are necessary.

Environmental precautions:

Shafts and sewers must be protected from entry of the product. 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. Wash hands before breaks and after work. After cleaning apply high-fat content skin care cream. When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing immediately.

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7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep container tightly closed.

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. Keep/Store only in original container.

Floors should be impervious, resistant to liquids and easy to clean.

Hints on storage assembly:

Do not store together with: Food and feedingstuffs

Storage class (TRGS 510, Germany): 10 - Combustible liquids that cannot be assigned to any of the above storage classes

Further information on storage conditions:

Keep container tightly closed in a cool, well-ventilated place. Store in a dry place.

Observe laws and regulations for storage and use of water pollutants.

Recommended storage temperature: 2 - 40°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

Wear cotton undermittens if possible.

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

Thickness of the glove material: ≥ 0.5 mm

Breakthrough time: > 480 min

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

Unsuitable material: Chromate-free leather, Thick fabric.

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Body protection: Protective clothing

Respiratory protection:

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

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: light yellow

Odour: characteristic

flammability: Yes

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	No data available		
Melting point	No data available		
Freezing point	No data available		
Initial boiling point and boiling range	> 200 °C		
Decomposition temperature	not applicable		
Flash point	> 200 °C		
Evaporation rate	No data available		
Auto-ignition temperature	No data available		
Upper/lower flammability or explosive limits	not applicable		
Vapour pressure	No data available		
Vapour density	not applicable		
Density	1.12 g/cm³	20 °C	
Relative density	not applicable		
Bulk density	not applicable		
Water solubility	Immiscible		
Partition coefficient: n-octanol/water	not applicable		
Dynamic viscosity	No data available		
Kinematic viscosity	No data available		

9.2. Other information

There is no additional information.

SECTION 10: Stability and reactivity

10.1. Reactivity

No known hazardous reactions.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

No information available.

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10.5. Incompatible materials

Materials to avoid: Acid, Oxidising agent, strong

10.6. Hazardous decomposition products

No known hazardous decomposition products.

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

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)
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Bisphenol-F-epichlor hydrine epoxyresin	CAS No.: 28064-14-4	EC No.: 608-164-0
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LD₅₀ oral: >2,000 mg/kg (Rat)

LD₅₀ dermal: >2,000 mg/kg (Rat)

2-Ethylhexylglycidylether	CAS No.: 2461-15-6	EC No.: 219-553-6
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LD₅₀ oral: 5,000 mg/kg (rat)
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LD₅₀ dermal: 2,000 mg/kg (rat)
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p-tert-butylphenyl 1-(2,3-epoxy)propyl ether	CAS No.: 3101-60-8	EC No.: 221-453-2
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LD₅₀ oral: 10,000 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:

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.

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).

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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)
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)
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)

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.

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* 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
2-Ethylhexylglycidylether CAS No.: 2461-15-6 EC No.: 219-553-6
Log K_{ow}: 3.83
Bioconcentration factor (BCF): 355
p-tert-butylphenyl 1-(2,3-epoxy)propyl ether CAS No.: 3101-60-8 EC No.: 221-453-2
Log K_{ow}: 3.59

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.
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.
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.

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 code packaging

Remark:

Dispose of waste according to applicable legislation.

Waste treatment options

Appropriate disposal / Product:

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.

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Appropriate disposal / Package:

Dispose of waste according to applicable legislation.

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)]bis[Bisphenol-F-epichlor hydrine epoxyresin)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,2'-(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[Bisphenol-F-epichlor hydrine epoxyresin)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,2'-(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[Bisphenol-F-epichlor hydrine epoxyresin)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,2'-(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane, Bisphenol-F-epichlor hydrine epoxyresin)
14.3. Transport hazard class(es)			
 9	 9	 9	 9
14.4. Packing group			
III	III	III	III
14.5. Environmental hazards			
			MARINE POLLUTANT
14.6. Special precautions for user			
Special Provisions: 274 335 375 601 650	Special Provisions: 274 335 375 601 650	Special Provisions: 274 335 375 969	Special Provisions: A97 A158 A197 A215
Limited quantity (LQ): 5 L	Limited quantity (LQ): 5 L	Limited quantity (LQ): 5 L	Limited quantity (LQ): Y964
Excepted Quantities (EQ): E1	Excepted Quantities (EQ): E1	Excepted Quantities (EQ): E1	Excepted Quantities (EQ): E1
Hazard identification number (Kemler No.): 90	Classification code: M6	Classification code: M6	Remark: A197: These substances when transported in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass of 5 kg or less for solids, are not subject to any other provisions of these Regulations provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 ADR/RID/ADN.
Tunnel restriction code: (-)	Remark: SV 375 These substances when transported in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass of 5 kg or less for solids, are not subject to any other provisions of these Regulations provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 ADR/RID/ADN.	EmS-No.: F-A, S-F	Remark: 2.10.2.7 / IMDG-Code 42-24: Special Provision 375 Marine pollutants packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to any other provision of this Code relevant to marine pollutants provided
Remark: SV 375 These substances when transported in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass of 5 kg or less for solids, are not subject to any other provisions of these Regulations provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 ADR/RID/ADN.			

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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
any other provisions of these Regulations provided that packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 ADR/RID/ADN.		the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.	

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

Synthetic polymer microparticles

The synthetic polymer microparticles supplied is subject to conditions laid down by entry 78 of Annex XVII to Regulation (EC) No 1907/2006.

No synthetic microparticles are present.

Other regulations (EU):

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive], Hazard categories:

• E2 Hazardous to the Aquatic Environment in Category Chronic 2

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

2.2.	Label elements
3.2.	Mixtures
8.1.	Control parameters
11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008
12.1.	Toxicity
12.2.	Persistence and degradability
12.3.	Bioaccumulative potential
12.5.	Results of PBT and vPvB assessment
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture
16.1.	Indication of changes
16.3.	Key literature references and sources for data
16.5.	List of relevant hazard statements and/or precautionary statements from sections 2 to 15

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

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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
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/
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/
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/

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 Irrit. 2)	H315: Causes skin irritation.	Calculation method.
Respiratory or skin sensitisation (Skin Sens. 1)	H317: May cause an allergic skin reaction.	Calculation method.
Serious eye damage/eye irritation (Eye Irrit. 2)	H319: Causes serious eye irritation.	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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* 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.

Supplemental hazard information

EUH205	Contains epoxy constituents. May produce an allergic reaction.
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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:

Uta Sabath Gefahrgutberatung

Postfach 15 01 05

33731 Bielefeld / Germany

* Data changed compared with the previous version.