Lithomex L10 B-Kp.

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

1.1. Product identifier

Trade name/designation:

Lithomex L10 B-Kp.

Article No.:
1243

UFI:
VQWF-RSJM-2QRV-1JEU

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
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

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.

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 – < 65 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-%
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	7 – < 14 weight-%

Lithomex L10 B-Kp.

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	7 – < 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. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended.

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. If skin irritation or rash occurs: Get medical advice/attention. Take off immediately all contaminated clothing.

After eye contact:
In case of contact with eyes, rinse immediately thoroughly with plenty of edible oil and consult an ophthalmologist.

Following ingestion:
Call a physician immediately. Rinse mouth. Let 1 glass of water be drunken in little sips (dilution effect). Get medical advice/attention if you feel unwell.

Self-protection of the first aider:
No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator. Use personal protection equipment.

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

Allergic reactions
Serious eye damage/eye irritation
skin irritation

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

First Aid, decontamination, treatment of symptoms. Treat symptomatically.

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. 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. Combustible

Hazardous combustion products:
Carbon dioxide (CO2)
Carbon monoxide In case of fire: Gases/vapours, toxic

5.3. Advice for firefighters
In case of fire: Wear self-contained breathing apparatus. Wear a self-contained breathing apparatus and chemical protective clothing.

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. Remove persons to safety.

Protective equipment:
Personal protection equipment: see section 8 Wear protective gloves/protective clothing/eye protection/ face protection.

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

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. Use appropriate container to avoid environmental contamination.

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. Wear personal protection equipment (refer to section 8).

Fire prevent measures:
No special fire protection measures are necessary. Take precautionary measures against static discharge.

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. Avoid contact with skin, eyes and clothes.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:
Keep container tightly closed in a cool, well-ventilated place.

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): 10 – Combustible liquids that cannot be assigned to any of the above storage classes

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/m³	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/m³	① DNEL worker ② Long-term – inhalation, systemic effects

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: ≥ 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 Breakthrough time: min In the case of wanting to use the gloves again, clean them before taking off and air them well.

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: light yellow
Odour: characteristic
flammability: Yes

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	*not applicable*		
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	1.1 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	*not applicable*		

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. Combustible

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. Gases/vapours, toxic

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	
LD_{50} oral: 11,400 mg/kg (Rat)	
LD_{50} dermal: 2,000 mg/kg (Rat)	
Bisphenol-F-epichlor hydrine epoxyresin CAS No.: 28064-14-4 EC No.: 608-164-0	
LD_{50} oral: >2,000 mg/kg (Rat)	
LD_{50} dermal: >2,000 mg/kg (Rat)	
p-tert-butylphenyl 1-(2,3-epoxy)propyl ether CAS No.: 3101-60-8 EC No.: 221-453-2	
LD_{50} oral: 10,000 mg/kg (rat)	
LD_{50} dermal: >2,000 mg/kg (rat)	
2-Ethylhexylglycidylether CAS No.: 2461-15-6 EC No.: 219-553-6	
LD_{50} oral: 5,000 mg/kg (rat)	
LD_{50} 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.

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

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane CAS No.: 1675-54-3 EC No.: 216-823-5
LC_{50}: 2.7 mg/L 2 d (fish, Oncorhynchus mykiss (previous name: Salmo gairdneri)) EPA-660/3-75-009
LC_{50}: 1.8 mg/L 3 d (fish, Oncorhynchus mykiss (previous name: Salmo gairdneri)) EPA-660/3-75-009
LC_{50}: 1.2 mg/L 4 d (fish, Oncorhynchus mykiss (previous name: Salmo gairdneri)) EPA-660/3-75-009
LC_{50}: 2.7 mg/L 2 d (crustaceans, Daphnia magna) EPA-660/3-75-009
EC_{50}: 9.1 mg/L 2 d (Algae/water plant, Scenedesmus capricornutum) EPA-660/3-75-009
EC_{50}: 9.4 mg/L 3 d (Algae/water plant, Scenedesmus capricornutum) EPA-660/3-75-009
EC_{50}: 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
LC_{50}: 2.54 mg/L 4 d (fish, Leuciscus idus (golden orfe))
EC_{50}: >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)
p-tert-butylphenyl 1-(2,3-epoxy)propyl ether CAS No.: 3101-60-8 EC No.: 221-453-2
LC_{50}: 7.5 mg/L 4 d (fish, Oncorhynchus mykiss (previous name: Salmo gairdneri)) OECD Guideline 203 (Fish, Acute Toxicity Test)
EC_{50}: 9 mg/L 3 d (Algae/water plant, Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)) OECD Guideline 201 (Alga, Growth Inhibition Test)
EC_{50}: 67.9 mg/L 2 d (crustaceans, Daphnia magna) OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
2-Ethylhexylglycidylether CAS No.: 2461-15-6 EC No.: 219-553-6
LC_{50}: >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)
IC_{50}: 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
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.
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. Consult the appropriate local waste disposal expert about waste disposal.

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)]bisoxirane, 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)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane, 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 **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

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

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
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/
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 *(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.

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.

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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