

Safety Data Sheet

Lithomex L20 - Component A

Replaces date: 3/4/2019

Revision date: 11/8/2019
Version: 1.1.0

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

1.1. Product identifier

Trade name: Lithomex L20 - Component A

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

Recommended uses: Primer.
For outdoor use.

SU: Building and construction work (SU19).

1.3. Details of the supplier of the safety data sheet

Supplier

Company: Lithomex A/S
Address: Lervejdal 14 D
Zip code: DK-8740
City: Brædstrup
Country: DENMARK
E-mail: info@lithomex.dk
Phone: +45 86221122

1.4. Emergency Telephone Number

+45 86221122 (Lithomex)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLP-classification: Skin Irrit. 2;H315 Skin Sens. 1;H317 Eye Irrit. 2;H319 Aquatic Chronic 2;H411

Most serious harmful effects: Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Toxic to aquatic life with long lasting effects.

2.2. Label elements

Pictograms



Signal word: Warning

Contains

Substance: Reaction product: bisphenol-A-(epichlorhydrin); Bisphenol F-Epichlorhydrin Copolymer; Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.; Trimethylolpropane triacrylate

Hazard Statements

H315 Causes skin irritation.

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H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P273 Avoid release to the environment.
P391 Collect spillage.

Supplemental information

EUH205 Contains epoxy constituents. May produce an allergic reaction.

2.3. Other hazards

Assessment to determine PBT and vPvB has not been made. When mixing two components, consult the safety data sheets for both components.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance	CAS No	EC No	REACH Reg. No.	Concentration	Notes	CLP-classification
Reaction product: bisphenol-A-(epichlorhydrin)	25068-38-6	500-033-5	01-2119456619-26	30 < 50%	8	Skin Irrit. 2;H315 Skin Sens. 1;H317 Eye Irrit. 2;H319 Aquatic Chronic 2;H411
Bisphenol F-Epichlorhydrin Copolymer	55492-52-9	--	01-2119454392-40	25 < 40%	8	Skin Irrit. 2;H315 Skin Sens. 1;H317 Eye Irrit. 2;H319 Aquatic Chronic 2;H411
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	68609-97-2	271-846-8	01-2119485289-22	5 < 10%		Skin Irrit. 2;H315 Skin Sens. 1;H317
Trimethylolpropane triacrylate	15625-89-5	239-701-3		2 < 5%		Skin Irrit. 2;H315 Skin Sens. 1;H317 Eye Irrit. 2;H319

Please see section 16 for the full text of H-phrases..

8 = The substance is an epoxy resin

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation: Seek fresh air. Seek medical advice in case of persistent discomfort.

Ingestion: Wash out mouth thoroughly and drink 1-2 glasses of water in small sips. Seek medical advice in case of persistent discomfort.

Skin contact: Remove contaminated clothing. Carefully remove as much of the product from the skin as possible, using a cloth. Wash skin thoroughly with soap and lukewarm water and apply skin cream. Seek medical advice in case of eczema.

Eye contact: Flush immediately with water (preferably using eye wash equipment) for at least 5 minutes. Open eye wide. Remove any contact lenses. Seek medical advice.

General: When obtaining medical advice, show the safety data sheet or label.

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

Irritating to eyes. Causes a burning sensation and tearing. Irritating to skin – may cause reddening. May cause sensitization by skin contact. Symptoms include reddening, swelling, blistering and ulceration – often slowly developing.

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

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Treat symptoms. No special immediate treatment required.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media: Extinguish with powder, foam or water mist. Use water or water mist to cool non-ignited stock.

Unsuitable extinguishing media: Do not use water stream, as it may spread the fire.

5.2. Special hazards arising from the substance or mixture

Product decomposes in fire conditions or when heated to high temperatures, and inflammable and toxic gases may be released.

5.3. Advice for fire-fighters

Move containers from danger area if it can be done without risk. Avoid inhalation of vapour and flue gases – seek fresh air. Wear Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Stay upwind/keep distance from source. Avoid inhalation/keep a distance. Stop leak if this can be done without risk. Wear gloves. Wear safety goggles/face protection. Wear respiratory protective equipment.

For emergency responders: In addition to the above: Protective suit equivalent to EN 368, type 3, is recommended.

6.2. Environmental precautions

Prevent spillage from entering drains and/or surface water. Notify proper authorities in case of contamination of soil or aquatic environment or discharge to drains.

6.3. Methods and material for containment and cleaning up

Contain and absorb spill with sand or other absorbent material and transfer to suitable waste containers. Wipe up minor spills with a cloth.

6.4. Reference to other sections

See section 13 for instructions on disposal. See section 8 for type of protective equipment.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

For outdoor use. Running water and eye wash equipment must be available. Wash hands before breaks, before using restroom facilities, and at the end of work.

Individuals suffering from asthma or eczema and individuals with known, chronic lung disease or excessively sweaty palms (hyperhidrosis manuum) should not work with the product.

7.2. Conditions for safe storage, including any incompatibilities

Store safely, out of reach of children and away from food, animal feeding stuffs, medicines, etc. Do not store with the following: Acids/ Oxidisers.

Store in a dry, cool, well-ventilated area. Storage temperature: 2 - 40 °C.

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7.3. Specific end use(s)

No special uses in addition to identified uses in 1.2. See the technical data sheet for specific use instructions.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit: Contains no substances subject to reporting requirements

Measuring methods: Compliance with occupational exposure limits may be checked by occupational hygiene measurements.

Legal basis: Commission Directive 2000/39/EC (Occupational Exposure Limits) as subsequently amended. Last amended by Commission Directive 2017/164/EU. Directive 2004/37/EC (Exposure to carcinogens or mutagens at work) as subsequently amended. Last amended by Directive 2019/983/EU.

PNEC

Reaction product: bisphenol-A-(epichlorhydrin), cas-no 25068-38-6				
Exposure	Value	Assessment Factor	Extrapolation Method	Note
PNEC aqua (marine water)	0.0006 mg/l			
PNEC aqua (freshwater)	0.003 mg/l			
Bisphenol F-Epichlorhydrin Copolymer, cas-no 55492-52-9				
Exposure	Value	Assessment Factor	Extrapolation Method	Note
PNEC aqua (freshwater)	0,003 mg/l			
PNEC aqua (marine water)	0,0003 mg/l			
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs., cas-no 68609-97-2				
Exposure	Value	Assessment Factor	Extrapolation Method	Note
PNEC aqua (freshwater)	0,0072 mg/l			
PNEC aqua (marine water)	0,00072 mg/l			

DNEL - workers

Reaction product: bisphenol-A-(epichlorhydrin), cas-no 25068-38-6					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation DNEL (long-term exposure - systemic effects)	12.3				
Dermal DNEL (long-term exposure - systemic effects)	8.3 mg/kg bw/day				
Bisphenol F-Epichlorhydrin Copolymer, cas-no 55492-52-9					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation DNEL (long-term exposure - systemic effects)	29,39 mg/m ³				
Dermal DNEL (long-term exposure - systemic effects)	104,15 mg/kg bw/day				

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Oxirane, mono[(C12-14-alkyloxy)methyl] derivs., cas-no 68609-97-2					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation DNEL (long-term exposure - local effects)	0,98 mg/m ³				
Inhalation DNEL (long-term exposure - systemic effects)	13,8 mg/m ³				
Trimethylolpropane triacrylate, cas-no 15625-89-5					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation DNEL (long-term exposure - systemic effects)	16,2 mg/m ³				

8.2. Exposure controls

Appropriate engineering controls: Wear the personal protective equipment specified below.

Personal protective equipment, eyeface protection: Wear safety goggles/face protection. Eye protection must conform to EN 166.

Personal protective equipment, hand protection: Wear gloves. Type of material and thickness: Nitrile rubber. (≥ 0,5 mm) Gloves must conform to EN 374.

Personal protective equipment, respiratory protection: Outdoors: Not required.
By risk of inhalation of vapours/dust from the product, respiratory equipment with A/P-filter has to be used. Respiratory protection must conform to one of the following standards: EN 136/140/145.

Environmental exposure controls: Ensure compliance with local regulations for emissions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Parameter	Value/unit
State	Liquid
Colour	Light yellow
Odour	No data
Solubility	No data
Explosive properties	No data
Oxidising properties	No data

Parameter	Value/unit	Remarks
pH (solution for use)	No data	
pH (concentrate)	No data	
Melting point	No data	
Freezing point	No data	
Initial boiling point and boiling range	150 °C	
Flash Point	100 °C	
Evaporation rate	No data	
Flammability (solid, gas)	No data	
Flammability limits	No data	
Explosion limits	No data	
Vapour pressure	No data	
Vapour density	No data	

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Relative density	No data	
Partition coefficient n-octanol/water	No data	
Auto-ignition temperature	No data	
Decomposition temperature	No data	
Viscosity	~ 1400 mPas	23 °C
Odour threshold	No data	

9.2 Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with the following: Acids/ Oxidisers.

10.2. Chemical stability

The product is stable when used in accordance with the supplier's directions.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Acids/ Oxidisers.

10.6. Hazardous decomposition products

Product decomposes in fire conditions or when heated to high temperatures, and inflammable and toxic gases may be released.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Reaction product: bisphenol-A-(epichlorhydrin), cas-no 25068-38-6

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		11400mg/kg			

Bisphenol F-Epichlorhydrin Copolymer, cas-no 55492-52-9

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		> 2000mg/kg			

Oxirane, mono[(C12-14-alkyloxy)methyl] derivs., cas-no 68609-97-2

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		> 5000mg/kg			

Trimethylolpropane triacrylate, cas-no 15625-89-5

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		5190mg/kg			

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

Acute toxicity - dermal

Reaction product: bisphenol-A-(epichlorhydrin), cas-no 25068-38-6

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source

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Rat	LD50		20000mg/kg			
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Bisphenol F-Epichlorohydrin Copolymer, cas-no 55492-52-9

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit	LD50		> 2000mg/kg			

Oxirane, mono[(C12-14-alkyloxy)methyl] derivs., cas-no 68609-97-2

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit	LD50		> 4500mg/kg			

Trimethylolpropane triacrylate, cas-no 15625-89-5

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit	LD50		5170mg/kg			

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

- Acute toxicity - inhalation:** The product does not have to be classified. Test data are not available.
- Skin corrosion/irritation:** Irritating to skin – may cause reddening.
- Serious eye damage/eye irritation:** Irritating to eyes. Causes a burning sensation and tearing.
- Respiratory sensitisation or skin sensitisation:** May cause sensitization by inhalation. Symptoms include cold, sneezing, breathing difficulties and hives.
- Germ cell mutagenicity:** The product does not have to be classified. Test data are not available.
- Carcinogenic properties:** The product does not have to be classified. Test data are not available.
- Reproductive toxicity:** Suspected of damaging the unborn child.
- Single STOT exposure:** The product does not have to be classified. Test data are not available. Inhalation of vapours may cause irritation to the upper airways.
- Repeated STOT exposure:** The product does not have to be classified. Test data are not available.
- Aspiration hazard:** The product does not have to be classified. Test data are not available.
- Other toxicological effects:** None known.

SECTION 12: Ecological information

12.1. Toxicity

Reaction product: bisphenol-A-(epichlorohydrin), cas-no 25068-38-6

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Crustacea	Daphnia magna		48hEC50	2.8mg/l			
			72hEC50	9.4mg/l			
			21dNOEC	0.3mg/l			
		96h	LC50	1.3mg/l			

Oxirane, mono[(C12-14-alkyloxy)methyl] derivs., cas-no 68609-97-2

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
			72hEC50	844mg/l			
Fish	Oncorhynchus mykiss		72hLC50	1800mg/l			

Toxic to aquatic life with long lasting effects.

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12.2. Persistence and degradability

Reaction product: bisphenol-A-(epichlorhydrin), cas-no 25068-38-6

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
		28D		5 %	Not readily biodegradable.		

Test data are not available for all substances

12.3. Bioaccumulative potential

Reaction product: bisphenol-A-(epichlorhydrin), cas-no 25068-38-6

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
			BCF	31			
			Log Pow	3.242			

Test data are not available for all substances

12.4. Mobility in soil

Test data are not available for all substances

12.5. Results of PBT and vPvB assessment

No assessment has been made.

12.6. Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Avoid discharge to drain or surface water. If this product as supplied becomes a waste, it meets the criteria of a hazardous waste (Dir. 2008/98/EU). Collect spills and waste in closed, leak-proof containers for disposal at the local hazardous waste site.

Hardened product is non-hazardous waste according to waste regulations. Contact the local authorities for instructions on handling. Use the below code for waste registration.

Absorbent/cloth contaminated with the product: EWC code: 15 02 02 absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances.

Category of waste: 08 04 09* waste adhesives and sealants containing organic solvents or other hazardous substances

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN-No.:	3082	14.4. Packing group:	III
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Reaction product: bisphenol-A-(epichlorhydrin)) (Bisphenol F-Epichlorhydrin Copolymer)	14.5. Environmental hazards:	The product must be labelled as an environmental hazard (symbol: fish and tree) in packaging sizes of more than 5 kg/l.
14.3. Transport hazard class(es):	9		
Hazard label(s):	9		

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Hazard identification number: 90 **Tunnel restriction code:** -

Inland water ways transport (ADN)

14.1. UN-No.:	3082	14.4. Packing group:	III
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Reaction product: bisphenol-A-(epichlorhydrin)) (Bisphenol F-Epichlorohydrin Copolymer)	14.5. Environmental hazards:	The product must be labelled as an environmental hazard (symbol: fish and tree) in packaging sizes of more than 5 kg/l.
14.3. Transport hazard class(es):	9		
Hazard label(s):	9		
Transport in tank vessels:			

Sea transport (IMDG)

14.1. UN-No.:	3082	14.4. Packing group:	III
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Reaction product: bisphenol-A-(epichlorhydrin)) (Bisphenol F-Epichlorohydrin Copolymer)	14.5. Environmental hazards:	The product must be labelled as a Marine Pollutant (MP) in packaging sizes of more than 5 kg/l.
14.3. Transport hazard class(es):	9	Environmental Hazardous Substance Name(s):	Reaction product: bisphenol-A-(epichlorhydrin) Bisphenol F-Epichlorohydrin Copolymer
Hazard label(s):	9		
EmS:	F-A, S-F	IMDG Code segregation group:	- None -

Air transport (ICAO-TI / IATA-DGR)

14.1. UN-No.:	3082	14.4. Packing group:	III
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Reaction product: bisphenol-A-(epichlorhydrin)) (Bisphenol F-Epichlorohydrin Copolymer)	14.5. Environmental hazards:	The product must be labelled as an environmental hazard (symbol: fish and tree) in packaging sizes of more than 5 kg/l.
14.3. Transport hazard class(es):	9		
Hazard label(s):	9		

14.6. Special precautions for user

None.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable.

SECTION 15: Regulatory information

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

Special Provisions: Special care should be applied for employees under the age of 18. Young people under the age of 18 may not carry out any work causing harmful exposure to this product.
Directive 2012/18/EU (Seveso), E2 Hazardous to the Aquatic Environment in Category

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Chronic 2: Column 2: 200 t, Column 3: 500 t.

Covered by:
Council Directive (EC) on the protection of young people at work.

15.2. Chemical Safety Assessment

Other Information: Chemical safety assessment has not been performed.

SECTION 16: Other information

Version history and indication of changes

Version	Revision date	Responsible	Changes
1.1.0	11/8/2019	Bureau Veritas HSE/JST	1,7,8

Abbreviations:
DNEL: Derived No Effect Level
PBT: Persistent, Bioaccumulative and Toxic
PNEC: Predicted No Effect Concentration
STOT: Specific Target Organ Toxicity
vPvB: Very Persistent and Very Bioaccumulative

Other Information: This safety data sheet has been prepared for and applies to this product only. It is based on our current knowledge and the information that the supplier was able to provide about the product at the time of preparation. The safety data sheet complies with applicable law on preparation of safety data sheets in accordance with 1907/2006/EC (REACH) as subsequently changed.

Training advice: A thorough knowledge of this safety data sheet should be a prerequisite condition.

Classification method: Calculation based on the hazards of the known components.

List of relevant H-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.

SDS is prepared by

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