

Safety Data Sheet

Lithomex L50 - Component B

Issued: 3/1/2019
Version: 1.0.0

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

1.1. Product identifier

Trade name: Lithomex L50 - Component B

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

Recommended uses: Hardener.

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: Acute Tox. 4;H302 Skin Corr. 1B;H314 Skin Sens. 1;H317 Eye Dam. 1;H318 Repr. 2;H361d Aquatic Chronic 3;H412

Most serious harmful effects: Harmful if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Suspected of damaging the unborn child. Harmful to aquatic life with long lasting effects.

2.2. Label elements

Pictograms



Signal word: Danger

Contains

Substance: Benzyl alcohol; m-phenylenebis(methylamine); 3-aminomethyl-3,5,5-trimethylcyclohexylamine; Salicylic acid; Phenol, 4,4-(1-methylethylidene)bis-, polymer with 1,3-benzenedimethanamine and (chloromethyl)oxirane

Hazard Statements

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H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H361d	Suspected of damaging the unborn child.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+361+353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.

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
Benzyl alcohol	100-51-6	202-859-9	01-2119492630-38	25 - 50%		Acute Tox. 4;H302 Eye Irrit. 2;H319 Acute Tox. 4;H332
3-aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2	220-666-8	01-2119514687-32	10 - 25%		Acute Tox. 4;H302 Acute Tox. 4;H312 Skin Corr. 1B;H314 Skin Sens. 1A;H317 Aquatic Chronic 3;H412
m-phenylenebis (methylamine)	1477-55-0	216-032-5	01-2119480150-50	10 - 25%		Acute Tox. 4;H302 Skin Corr. 1B;H314 Skin Sens. 1;H317 Acute Tox. 4;H332 Aquatic Chronic 3;H412
Phenol, 4,4-(1-methylethylidene)bis-, polymer with 1,3-benzenedimethanamine and (chloromethyl) oxirane	113930-69-1	500-302-7		2.5 - 10%		Acute Tox. 4;H302 Skin Sens. 1;H317 Aquatic Chronic 2;H411
Salicylic acid	69-72-7	200-712-3	01-2119486984-17	2.5 - 10%		Acute Tox. 4;H302 Eye Dam. 1;H318 Repr. 2;H361d

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

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. Do not induce vomiting. If vomiting occurs, keep head low so that stomach contents do not enter lungs. Seek medical advice immediately.
Skin contact:	Immediately remove contaminated clothing. Wash skin with soap and water. Seek medical advice immediately.
Eye contact:	Open eye wide, remove any contact lenses and flush immediately with water (preferably using eye wash equipment). Seek medical advice immediately. Continue flushing until

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medical attention is obtained.

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

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

Harmful if swallowed. Inhalation of vapours may cause irritation to the upper airways. Ingestion may cause caustic burning in mouth, oesophagus and stomach. Pains in mouth, throat and stomach. Difficulty swallowing, feeling unwell and vomiting of blood. Brown spots and burns may appear in and around the mouth. Has a caustic burning effect and causes burning pain, reddening, blistering and burning sores if it comes in contact with skin. Eye contact may result in deep caustic burns, pain, tearing and cramping of the eyelids. Risk of serious eye injury and loss of sight. The product releases organic solvent vapours which may cause lethargy and dizziness. At high concentrations, the vapours may cause headache and intoxication. 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

Treat symptoms. Ensure that medical personnel are aware of the material involved, and take precautions to protect themselves.

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. Extinguishing water which has been in contact with the product may be corrosive.

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: Chemical protective suit equivalent to EN 943-2 is recommended.

6.2. Environmental precautions

Prevent spillage from entering drains and/or surface water.

6.3. Methods and material for containment and cleaning up

Caution! Causes burns. 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

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7.1. Precautions for safe handling

Work under effective process ventilation (e.g. local exhaust ventilation). Running water and eye wash equipment must be available. Wash hands before breaks, before using restroom facilities, and at the end of work.

A workplace assessment must be conducted to ensure that employees are not exposed to effects that may involve a risk during pregnancy.

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/ Alkalis/ Oxidisers.

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 the stated 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.

PNEC

Benzyl alcohol, cas-no 100-51-6				
Exposure	Value	Assessment Factor	Extrapolation Method	Note
PNEC aqua (freshwater)	1 mg/l			
PNEC aqua (marine water)	0,1 mg/l			
m-phenylenebis(methylamine), cas-no 1477-55-0				
Exposure	Value	Assessment Factor	Extrapolation Method	Note
PNEC aqua (marine water)	0.0094 mg/l			
PNEC aqua (freshwater)	0.094 mg/l			
3-aminomethyl-3,5,5-trimethylcyclohexylamine, cas-no 2855-13-2				
Exposure	Value	Assessment Factor	Extrapolation Method	Note
PNEC aqua (freshwater)	0,06 mg/l			
PNEC aqua (marine water)	0,006 mg/l			
Salicylic acid, cas-no 69-72-7				
Exposure	Value	Assessment Factor	Extrapolation Method	Note
PNEC aqua (freshwater)	0,2 mg/l			
PNEC aqua (marine water)	0,02 mg/l			

DNEL - workers

Benzyl alcohol, cas-no 100-51-6					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Dermal DNEL (long-term exposure)	9,5 mg/kg				
#Not translated#	22 mg/m ³				

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m-phenylenebis(methylamine), cas-no 1477-55-0					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation DNEL	1,2 mg/l				
Dermal DNEL	0,33 mg/kg bw/day				
3-aminomethyl-3,5,5-trimethylcyclohexylamine, cas-no 2855-13-2					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation DNEL	20,1 mg/m ³				
Salicylic acid, cas-no 69-72-7					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Dermal DNEL	2 mg/kg bw/day				

8.2. Exposure controls

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

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

Personal protective equipment, hand protection: Wear gloves. Type of material: Nitrile rubber. Gloves must conform to EN 374.

Personal protective equipment, respiratory protection: Wear respiratory protective equipment. Filter type: A. P. 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	Yellowish
Odour	Amine odour
Solubility	Insoluble in the following: Water.
Explosive properties	Non-explosive
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	> 200 °C	
Flash Point	> 100 °C	
Evaporation rate	No data	
Flammability (solid, gas)	No data	
Flammability limits	380 °C	
Explosion limits	1.2 - 13 vol%	
Vapour pressure	0.1 hPa	20 °C
Vapour density	No data	
Relative density	1.06 g/cm ³	ISO 2811-2 (23 °C)
Partition coefficient n-octanol/water	No data	

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Auto-ignition temperature	No data	
Decomposition temperature	No data	
Viscosity	200 mPas	ISO 3219 (dynamic) 25 °C
Odour threshold	No data	

9.2 Other information

Other Information: VOC (Volatile organic compounds): <500 g/L

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with the following: Acids/ Alkalis/ 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/ Alkalis/ 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

Benzyl alcohol, cas-no 100-51-6

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		1620mg/kg			

m-phenylenebis(methylamine), cas-no 1477-55-0

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Mouse	LD50		1180mg/kg			

3-aminomethyl-3,5,5-trimethylcyclohexylamine, cas-no 2855-13-2

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		1030mg/kg			

Salicylic acid, cas-no 69-72-7

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		891mg/kg			

Harmful if swallowed.

Acute toxicity - dermal

Benzyl alcohol, cas-no 100-51-6

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

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m-phenylenebis(methylamine), cas-no 1477-55-0

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit	LD50		3100mg/kg			

3-aminomethyl-3,5,5-trimethylcyclohexylamine, cas-no 2855-13-2

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit	LD50		1840mg/kg			

Salicylic acid, cas-no 69-72-7

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		> 2000mg/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:** Has a caustic burning effect and causes burning pain, reddening, blistering and burning sores if it comes in contact with skin.
- Serious eye damage/eye irritation:** Eye contact may result in deep caustic burns, pain, tearing and cramping of the eyelids. Risk of serious eye injury and loss of sight.
- 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. The product releases organic solvent vapours which may cause lethargy and dizziness. At high concentrations, the vapours may cause headache and intoxication. 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:** Ingestion may cause caustic burning in mouth, oesophagus and stomach. Pains in mouth, throat and stomach. Difficulty swallowing, feeling unwell and vomiting of blood. Brown spots and burns may appear in and around the mouth.

SECTION 12: Ecological information

12.1. Toxicity

Benzyl alcohol, cas-no 100-51-6

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Crustacea	Daphnia magna		24hEC50	400mg/l			
Algae	Pseudokirchneriella subcapitata		72hIC50	770mg/l			
Fish	Pimephales promelas		96hLC50	460mg/l			
Fish	Lepomis macrochirus		96hLC50	10mg/l			

m-phenylenebis(methylamine), cas-no 1477-55-0

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Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Algae	Selenastrum capricornutum		72hEC50	20.3mg/l			
Crustacea	Daphnia magna		48hEC50	15.2mg/l			
Fish	Oryzias latipes		96hLC50	87.6mg/l			

3-aminomethyl-3,5,5-trimethylcyclohexylamine, cas-no 2855-13-2

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Algae	Scenedesmus subspicatus		72hErC50	> 50mg/l			
Fish	Leuciscus idus		96hLC50	110mg/l			
Crustacea	Daphnia magna		48hEC50	23mg/l			

Salicylic acid, cas-no 69-72-7

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Crustacea	Daphnia magna		48hEC50	870mg/l			
Algae	Desmodesmus subspicatus		72hEC50	> 100mg/l			
Fish	Pimephales promelas		96hLC50	1380mg/l			

Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability

Test data are not available.

12.3. Bioaccumulative potential

Test data are not available.

12.4. Mobility in soil

Test data are not available.

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

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SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN-No.:	2735	14.4. Packing group:	II
14.2. UN proper shipping name:	AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine))	14.5. Environmental hazards:	The product should not be labelled as an environmental hazard (symbol: fish and tree).
14.3. Transport hazard class(es):	8		
Hazard label(s):	8		
Hazard identification number:	80	Tunnel restriction code:	E

Inland water ways transport (ADN)

14.1. UN-No.:	2735	14.4. Packing group:	II
14.2. UN proper shipping name:	AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine))	14.5. Environmental hazards:	The product should not be labelled as an environmental hazard (symbol: fish and tree).
14.3. Transport hazard class(es):	8		
Hazard label(s):	8		
Transport in tank vessels:			

Sea transport (IMDG)

14.1. UN-No.:	2735	14.4. Packing group:	II
14.2. UN proper shipping name:	AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine))	14.5. Environmental hazards:	The product is not a Marine Pollutant (MP).
14.3. Transport hazard class(es):	8	Environmental Hazardous Substance Name(s):	
Hazard label(s):	8		
EmS:	F-A, S-B	IMDG Code segregation group:	Segr. grp. 18 - Alkalis (SGG18)

Air transport (ICAO-TI / IATA-DGR)

14.1. UN-No.:	2735	14.4. Packing group:	II
14.2. UN proper shipping name:	AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine))	14.5. Environmental hazards:	The product should not be labelled as an environmental hazard (symbol: fish and tree).
14.3. Transport hazard class(es):	8		
Hazard label(s):	8		

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.

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Covered by:
Council Directive on the protection of young people at work.
Council Directive on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding.

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
1.0.0	3/1/2019	Bureau Veritas HSE/JST	

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.
Test data.

List of relevant H-statements

H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H361d Suspected of damaging the unborn child.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

SDS is prepared by

Company: Bureau Veritas HSE Denmark A/S
Address: Oldenborggade 25-31
Zip code: 7000

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