

Safety data sheet

Prepared: 18-11-2021 SDS version: 1.7

ITEM 1: Identification of the substance/mixture and of the company/company

1.1. Product identifier Trade name:

SPECIAL THINNER LF 10

Product no.: -

1.2. Relevant identified uses of the substance or mixture and uses advised against Recommended uses: Diluent for dilution of P.D. enamels and P.D. primers.

Uses advised against:

May only be used as described above, other uses must be made in consultation with the supplier.

1.3. Details of the supplier of the safety data sheet

Company name and address:

Lars Frey Farve & Lak ApS
Solrødvej 6, gate H,
DK-4621 Gadstrup, Denmark

Tel: + 45 20 84 21 31

Contact person and email:

Lars Frey, lfj@larsfrey.dk

The safety data sheet has been prepared and validated by:

Mediator A/S, Centervej 2, 6000 Kolding. Consultant: DH 1.4.

Emergency telephone line:

+45 82 12 12 12

ITEM 2: Fare identification

2.1. Classification of the substance or mixture

CLP (1272/2008): Flam. Liq. 3;H226, Acute Tox. 4;H312+H332, Skin Irrit. 2;H315.

Wording of H-phrases - see below in ITEM 16.

2.2. Marking elements



Signalord:

Warning

Flammable liquid and vapor. (H226)

Harmful in case of skin contact or inhalation. (H312+H332)

Causes skin irritation. (H315)

Keep away from heat, hot surfaces, sparks, open flames and other sources of ignition. No smoking. (P210)

Avoid inhalation of fumes/vapours. (P261)

Wear protective gloves/protective clothing/eye protection/face protection. (P280)

IF INHALED: Move the person to a place with fresh air and ensure that breathing is facilitated. Call the POISON LINE/doctor in case of discomfort. (P304+P340+P312)

In case of skin irritation: Seek medical attention. (P332+P313)

2.3. Other hazards

The product contains organic solvent. Repeated exposure to organic solvents can cause damage to the nervous system and internal organs such as liver, kidneys.

Other marking:

-

Other things

-

SECTION 3: Composition of/information on ingredients

3.1./3.2. Substances / Mixtures

Ingredient	Index-nr.	CAS/EC no.	CLP classification	w/w %	Note
Xylene	601-022-00-9	1330-20-7/ 215-535-7	Flam. Liq.3;H226, Acute Tox. 4;H312, H332, Skin Irrit. 2;H315	> 50	1
2-Methoxy-1-Methylethylacetat	607-195-00-7	108-65-6/ 203-603-9	Flam. Liq. 3;H226	>25	1

1 = The substance is included in the Danish Working Environment Authority's list of organic solvents.

Wording of H-phrases - see below in ITEM 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation: Seek fresh air. Keep the casualty under supervision. In case of discomfort, call a POISON CENTER or a doctor.

Intake: Rinse your mouth thoroughly and drink 1-2 glasses of water in small sips. Do not induce vomiting. Seek medical attention if discomfort continues.

Skin contact: Remove contaminated clothing immediately. Wash the skin with soap and water. Seek medical attention in case of discomfort.

Eye contact: If the product gets into the eyes, rinse with water (preferably from eyewash) until the irritation ceases. Seek medical attention if irritation persists.

Combustion: Rinse with water until the pain stops. Remove clothing that has not been burned - seek medical advice/hospital, if possible continue rinsing until the doctor takes over the treatment.

Additional information: When consulting a doctor, bring the safety data sheet or label.

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

Harmful by inhalation and skin contact.

Irritating effects: The product contains substances that are local irritants in case of skin/eye contact or inhalation.

Contact with local irritants can result in the contact area becoming more exposed to the absorption of harmful substances such as allergens.

4.3. Indication of immediate medical attention and special treatment needed

Show this safety data sheet to the doctor or emergency department.

SECTION 5: Fire fighting

5.1. Extinguishing media

Extinguish with powder, foam, carbon dioxide or water mist. Do not use a water jet as this can spread the fire.

5.2. Special hazards associated with the substance or mixture

Flammable liquid and vapor. Avoid inhalation of vapors and fumes - seek fresh air. In case of fire, the product decomposes and dangerous gases such as COX can be formed. In case of fire, thick black smoke will be produced. Exposure to decomposition products can cause health damage. Cool closed containers exposed to fire with water. Do not let water from fire extinguishing run into sewers and streams.

5.3. Instructions for firefighters

Firefighters should use appropriate protective equipment.

SECTION 6: Precautions against accidental release

6.1. Personal safety measures, personal protective equipment and emergency procedures

Use personal protective equipment - see section 8. Avoid inhalation and contact with skin and eyes.

6.2. Environmental protection measures

Avoid unnecessary release to the environment - see section 12. Contact the authorities in connection with contamination of the soil and water environment as well as in the event of spills into sewers.

6.3. Methods and equipment for containment and purification

Spills are contained and collected with sand or other absorbent non-combustible material and transferred to suitable waste containers. Rinse afterwards with water. See ITEM 13 for disposal.

6.4. Reference to other ITEMS

See above.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

See under section 8 for information on precautions for use and personal protective equipment. Smoking and use of open flames prohibited. The product should be used in well-ventilated conditions. There should be access to running water and eyewash.

7.2. Conditions for safe storage, including any incompatibilities

The product should be stored securely, out of the reach of children and not together with food, feed, medicines etc. Should be stored in tightly closed original packaging. Must be stored in a dry, cool and ventilated place.

Store fireproof. The National Emergency Management Agency's technical regulations for flammable liquids must be strictly followed, including the rules for flammable storage.

Fire hazard class and storage

Fire hazard class II-1, one storage unit = 5 litres.

A maximum of 25 units may be stored without the approval of the fire authorities. Please be aware that there may be relaxations, cf. section 3.1.2. in the Ministry of Defence's Executive Order No. 1639 of 6/12/2016 on flammable and combustible liquids.

7.3. Special uses

See application section 1.

SECTION 8: Exposure controls/personal protective equipment

8.1. Control parameters

Limit values according to executive order no. 1426 of 28/06/2021 on limit values for substances and materials:

Ingredient	Threshold value	Note
Xylene	25 ppm – 109 mg/m ³	E, H
2-Methoxy-1-Methylerythylacetat	50 ppm – 275 mg/m ³	E, H

E = The substance has an EC limit value. H = The substance can be absorbed through the skin.

DNEL/PNEC values:

DNEL - Xylen:

Workers

Inhalation - Chronic Systemic	221 mg/m ³
Inhalation - Acute Systemic	442 mg/m ³
Inhalation - Chronic Local	221 mg/m ³
Inhalation - Acute Local	442 mg/m ³
Dermal - Chronic Systemic	212 mg/kg bw/day

Consumers

Inhalation - Chronic Systemic	65.3 mg/m ³
Inhalation - Acute Systemic	260 mg/m ³
Inhalation - Chronic Local	65.3 mg/m ³

Inhalation - Acute Local	260 mg/m ³
Dermal - Chronic Systemic	125 mg/kg bw/day
Oral - Chronic systemic	12.5 mg/kg bw/day

DNEL - 2-Methoxy-1-Methylethylacetat:
Workers

Inhalation - Chronic Systemic	275 mg/m ³
Inhalation - Acute Local	550 mg/m ³
Dermal - Chronic Systemic	796 mg/kg bw/day

Consumers

Inhalation - Chronic Systemic	33 mg/m ³
Inhalation - Chronic Local	33 mg/m ³
Dermal - Chronic Systemic	320 mg/kg bw/day
Oral - Chronic systemic	36 mg/kg bw/day

PNEC – Xylen:

Fresh water	0.327 mg/L
Intermittent releases (Freshwater)	0.327 mg/L
Sea water	0.327 mg/L
Land	2.31 mg/kg soil dw

PNEC - 2-Methoxy-1-Methylethylacetat:

Fresh water	0.635 mg/L
Intermittent releases (Freshwater)	6.35 mg/L
Sea water	0.064 mg/L
Land	0.29 mg/kg soil dw

8.2. Exposure control

There is no exposure scenario for this product.

Appropriate exposure control measures:

Use protective equipment as indicated below. Wash hands before breaks, toilet visits and after work. Do not eat, drink or smoke while using this product.

Personal protection:



Respiratory protection	Use approved mask with gas filter type A (brown - against organic vapours). The filters have a limited service life (must be changed). Read the manufacturer's instructions.
Protection of hands:	Use nitrile rubber protective gloves.
Eye/face protection:	Use safety glasses or a face shield.
Protection of skin:	Special work clothes must be used. Use possibly protective suit for prolonged work with the product.

Measures to limit environmental exposure

Make sure that when working with the product, there is damming material in the immediate vicinity. If possible, use waste trays during work.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:	Liquid
Smell:	-
Odor threshold:	
pH:	-
Melting point/Freezing point (°C):	-
Initial boiling point and boiling range (°C):	-
Flash point (°C):	27
Evaporation rate:	-
Flammability (solid, gas):	-
Upper/lower flammability or explosion limits (vol-%):	19 / 1
Vapor pressure (Pa):	-
Vapor density (air=1):	-
Relative density:	-
Solubility:	-

Partition coefficient: n-octanol/water:	-
Self-ignition temperature (°C):	-
Decomposition temperature (°C):	-
Viscosity:	-
Explosive properties:	-
Oxidizing properties:	-

9.2. Other information

Weight % org. Solvents:	-
VOCs (g/l):	-

SECTION 10: Stability and reactivity

10.1. Reactivity

No data.

10.2. Chemical stability

The product is stable when used in accordance with manufacturer's instructions. The vapors can ignite at temperatures above the flash point.

10.3. Risk of dangerous reactions

Vapors and air can form explosive mixtures.

10.4. Conditions to avoid

Avoid heating and contact with ignition sources.

10.5. Materials to avoid

Avoid contact with strong acids, strong bases, strong oxidizing agents and strong reducing agents.

10.6. Hazardous decomposition products

In case of fire or strong heating, the product splits and dangerous gases such as COX can be formed.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity: Harmful in contact with skin and by inhalation.

Substance	Exposure route	Art	Test	Results
Xylene	Oral	Broken	LD50	3523 mg/kg bw
Xylene	Inhalation	Broken	LC50/ 4 Timer	6350 ppm
2-Methoxy-1-Methylethylacetat	Oral	Broken	LD50	6100 - 10000 mg/kg bw
2-Methoxy-1-Methylethylacetat	Dermalt	Broken	LD50	> 2000 mg/kg bw

Hudætsning/irritation: Irritating to the skin - can cause redness. Can be absorbed through the skin and cause symptoms such as dizziness and headache.

Serious eye damage/eye irritation: May cause eye irritation.

Respiratory sensitization or skin sensitization: The database does not give rise to classification.

Germ cell mutagenicity: The database does not give rise to classification.

Carcinogenicitet: The database does not give rise to classification.

Reproductive toxicity: The database does not give rise to classification.

Simple STOT exposure: The product emits vapors from organic solvents that can cause drowsiness and dizziness. In high concentrations, the vapors can cause headaches and intoxication.

Repeated STOT exposures: Prolonged or repeated exposure through skin contact or inhalation of vapors can cause damage to the central nervous system.

Aspiration hazard: The database does not give rise to classification

SECTION 12: Environmental information

12.1. Toxicity

Substance	Duration of the test	Art	Test	Results
Xylene	96 Timer	Fish	LC50	2.6 mg/L
Xylene	73 Timer	Alger	EC50	2.2 mg/L
2-Methoxy-1-Methylethylacetat	96 Timer	Fish	LC50	100 - 180 mg/L
2-Methoxy-1-Methylethylacetat	48 Timer	Daphnia	EC50	> 500 mg/L
2-Methoxy-1-Methylethylacetat	72 Timer	Alger	EC50	> 1000 mg/L

12.2. Persistence and degradability

Substance	Degradability in the aquatic environment	Test	Results
Xylene	And	OECD Guideline 301 F	28 days: 90%
2-Methoxy-1-Methylethylacetat	And	OECD Guideline 301 F	28 days: 90%

12.3. Bioaccumulative potential

Substance	Potentially bioaccumulative	LogPow	BCF
Xylene	No	3.15	-
2-Methoxy-1-Methylethylacetat	No	1.2	-

12.4. Mobility in soil

Test data is not available.

12.5. Results of PBT and vPvB assessment

The substance does not meet the criteria for PBT or vPvB.

12.6. Other adverse effects

No.

SECTION 13: Disposal

13.1. Methods for waste treatment

The product is covered by the regulations on hazardous waste. Spills and waste are collected in closed and tight containers, which are disposed of via the municipal waste scheme for hazardous waste with the specifications below.

Chemical waste group	EAK- code	Waste type
C	08 01 11	Paint and varnish waste containing halogenated solvents or other dangerous substances
C	20 01 13	Solvents

Special marking:

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Contaminated packaging:

Packaging with residual contents of the product is disposed of under the same conditions as the product.

SECTION 14: Transport information

The product is covered by the regulations on the transport of dangerous goods by road and sea according to ADR and IMDG.

14.1 -14.4.

ADR

UN number	UN proper shipping name	Transport hazard class(es)	Packaging group
1263	WRONG	3	III

IMDG

AND-number	UN proper shipping name	Transport hazard class(es)	Packing group
1263	PAINT	3	III

14.5. Environmental hazards

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14.6. Special precautions for the user

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14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant.

SECTION 15: Information on regulation

15.1. Special regulations/specific legislation for the substance or mixture with regard to safety, health and the environment

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Limitations of use:

During a workplace assessment, it must be ensured that employees are not exposed to influences that could entail a risk during pregnancy or breastfeeding (cf. Danish Working Environment Authority's Executive Order no. 559 of 17/06/2004 on the performance of work).

Young people under the age of 18 may not professionally use or be exposed to the product. However, young people over the age of 15 are exempt from this rule if the product is included as a necessary part of an education. (cf., however, the Danish Working Environment Authority's Executive Order no. 239 of 06/04/2005 on youth work).

Requirements for special education:

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Other marking:

Code Number (1993): 5-3.

Pr-nr.: 894623.

Sources:

The Danish Working Environment Authority's order no. 301 of 13 May 1993 on determining code numbers, with subsequent amendments.

Order on work with substances and materials (chemical agents) - BEK no. 1793 of 18/12/2015.

The Danish Working Environment Authority's order no. 1049 of 30 May 2021 on the work of young people, with subsequent amendments.

Executive Order No. 1369 of 25 November 2015 on the marketing and labeling of volatile organic compounds in certain paints and varnishes as well as products for car refinishing.

Executive Order No. 1075 of 24 November 2011 on classification, packaging, labelling, sale and storage of substances and mixtures, with subsequent amendments. Executive Order No. 115 of 26 January 2017 of the Chemicals Act. Order on special duties for manufacturers, suppliers and importers, etc. of substances and materials according to the Working Environment Act - BEK no. 1794 of 18/12/2015.

Executive order no. 1426 of 28/06/2021 on limit values for substances and materials.

Executive order no. 2159 of 09/12/2020 on waste, with subsequent amendments.

15.2. Chemical Safety Assessment

No

SECTION 16: Other information

Other information:

Sources:

EU Regulation No. 1907/2006 (REACH).

EU regulation no. 1272/2008 (CLP), with later adaptations.

EU Regulation No. 276/2010. ECHA – The European Chemicals Agency.

The full wording of the H sentences referred to in ITEMS 2+3:

H226 - Flammable liquid and vapour.

H312 - Harmful in contact with skin.

H315 - Causes skin irritation.

H332 - Harmful by inhalation.

Classification according to Regulation (EC) No. 1272/2008:	
Flam. Liq. 3;H226	On the basis of experimental data
Acute Tox. 4;H312+H332	Calculation method
Skin Irrit. 2;H315	Calculation method

Abbreviations and acronyms used in the safety data sheet:

REACH: Registration, assessment and approval of and restrictions on chemicals. Regulation (EC) No. 1907/2006.

CLP: Regulation (EC) No. 1272/2008 on classification, labeling and packaging.

CAS-nr.: Chemical Abstracts Service-nummer.

EC no.: EINECS and ELINCS number (see also EINECS and ELINCS).

DNEL: Derived No-Effect Level (Derived No-Effect Level).

PNEC: Beregnet nuleffektkoncentration (Predicted No Effect Concentration).

STOT: Specific Target Organ Toxicity (Specific Target Organ Toxicity).

LD50: Lethal Dose for 50% of a test population.

LC50: Lethal concentration for 50% of a test population.

EC50: The effective substance concentration that causes 50% of the maximum response.

PBT: Persistent, Bioaccumulative and Toxic substance (Persistent, Bioaccumulative and Toxic).

vPvB: Very persistent and very bioaccumulative (Very Persistent and Very Bioaccumulative).

Other things

The information in this safety data sheet only applies to the product mentioned in ITEM 1 and is not necessarily valid when used together with other products.

Changes have been made in the following ITEMS:

1-16 General Update.

This safety data sheet replaces version:

1.6 (20-04-2020).