

Safety Data Sheet

Efaterm Laquer 0303

Replaces date: 08/04/2019

Revision date: 18/03/2020

Version: 2.0.0

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

1.1. Product identifier

Trade name: Efaterm Laquer 0303**Unique Formula Identifier (UFI):** 81U0-S0DC-W004-86QQ**Article no**

Article no	Description
0303	

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

Recommended uses: Coating of metal.**Inadvisable uses:** The product is recommended for only the above described uses.

1.3. Details of the supplier of the safety data sheet

Supplier**Company:** Esbjerg Farve- & Lakfabrik A/S**Address:** Energivej 13**Zip code:** DK-6700**City:** Esbjerg**Country:** DENMARK**E-mail:** info@esbjergpaints.dk**Phone:** 0045 75 12 86 00**Fax:** 0045 75 45 33 68**Homepage:** www.esbjergpaints.dk

1.4. Emergency Telephone Number

GB: +44 1215074123 (Advice and guidance) (Around the clock)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLP-classification: Flam. Liq. 3;H226 Skin Irrit. 2;H315 Eye Dam. 1;H318 STOT SE 3;H336 Carc. 1B;H350**Most serious harmful effects:** Flammable liquid and vapour. Causes skin irritation. Causes serious eye damage. May cause drowsiness or dizziness. May cause cancer.

2.2. Label elements

Pictograms**Signal word:** Danger**Contains****Substance:** propan-2-ol; butan-1-ol; Xylene; formaldehyde ... %

Safety Data Sheet

Efaterm Laquer 0303

Replaces date: 08/04/2019

Revision date: 18/03/2020

Version: 2.0.0

H-phrases

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H336	May cause drowsiness or dizziness.
H350	May cause cancer.

P-phrases

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280	Wear protective gloves/eye protection/face protection.
P261	Avoid breathing vapours.
P305/351/338+310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
P302/352	IF ON SKIN: Wash with plenty of soap and water.
P308+313	IF exposed or concerned: Get medical advice/attention.

2.3. Other hazards

The product does not contain any PBT or vPvB substances.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance	CAS No	EC No	REACH Reg. No.	Concentration	Notes	CLP-classification
Xylene	1330-20-7	215-535-7	01-2119488216-32	2.5 - 10%		Flam. Liq. 3;H226 Acute Tox. 4;H312 Skin Irrit. 2;H315 Acute Tox. 4;H332
n-butyl acetate	123-86-4	204-658-1	01-2119485493-29	2.5 - 10%		Flam. Liq. 3;H226 STOT SE 3;H336
2-butoxyethyl acetate	112-07-2	203-933-3	01-2119475112-47	2 - 6%		Acute Tox. 4;H312 Acute Tox. 4;H332
butan-1-ol	71-36-3	200-751-6	01-2119484630-38	2.5 - 10%		Flam. Liq. 3;H226 Acute Tox. 4;H302 Skin Irrit. 2;H315 Eye Dam. 1;H318 STOT SE 3;H335 STOT SE 3;H336
ethylbenzene	100-41-4	202-849-4	01-2119489370-35	1 ~ 2.5%		Flam. Liq. 2;H225 Asp. Tox. 1;H304 Acute Tox. 4;H332 STOT RE 2;H373
2-methoxy-1-methylethyl acetate	108-65-6	203-603-9	01-2119475791-29	< 2.5%		Flam. Liq. 3;H226
propan-2-ol	67-63-0	200-661-7	01-2119457558-25	10 - 25%		Flam. Liq. 2;H225 Eye Irrit. 2;H319 STOT SE 3;H336
N-methyl-2-pyrrolidone	872-50-4	212-828-1	01-2119472430-46	< 0.3%	14	Skin Irrit. 2;H315 Eye Irrit. 2;H319 STOT SE 3;H335 Repr. 1B;H360D
2-methylpropan-1-ol	78-83-1	201-148-0	01-2119484609-23	2.5 10%		Flam. Liq. 3;H226 Skin Irrit. 2;H315 Eye Dam. 1;H318 STOT SE 3;H335 STOT SE 3;H336
formaldehyde ... %	50-00-0	200-001-8	01-2119488953-20	< 0.15%		Acute Tox. 3;H301 Acute Tox. 3;H311 Skin Corr. 1B;H314 Skin Sens. 1;H317 Acute Tox. 3;H331 Muta. 2;H341 Carc. 1B;H350
butyl-glycollate-	7397-62-8	230-991-7	01-2119514685-36	< 0.2%		Eye Dam. 1;H318 Repr. 2;H361

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

Safety Data Sheet

Efaterm Laquer 0303

Replaces date: 08/04/2019

Revision date: 18/03/2020

Version: 2.0.0

14 = The substance is included in the candidate list (SVHC), Regulation 1907/2006/EC, Article 59.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:	If patient feels unwell move to fresh air and keep under surveillance. If the victim is unconscious, ascertain whether the victim is breathing. If breathing has stopped, apply artificial respiration. If the victim is unconscious but breathing, place in the recovery position and keep warm with blankets. Call for medical attention or ambulance.
Ingestion:	Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Get medical attention immediately!
Skin contact:	Promptly wash contaminated skin with soap or mild detergent and water. Promptly remove clothing if soaked through and wash as above. Do not use solvents.
Eye contact:	Flush immediately with lukewarm water (preferably using eye wash equipment) for at least 15 minutes. Open eye wide. Remove any contact lenses. Seek medical advice.
General:	If in doubt, seek medical advice. Also see para. 1

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

Pain in the eyes, redness, tears, swollen eyelids, itching Headache, dizziness, drowsiness and nausea.

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

Seek medical advice in case of discomfort. Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media: Fire can be extinguished with carbon dioxide, powder, foam or water spray.

Unsuitable extinguishing media: Do not use a direct water jet that could spread the fire.

5.2. Special hazards arising from the substance or mixture

Avoid inhaling of waste gases. Combustion will generate harmful gases, as combustion residues and carbon monoxide.

5.3. Advice for fire-fighters

Cool closed containers with water. Fire will produce a thick black smoke. Products of combustion are harmful and respiratory protection is required.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Avoid inhalation of vapours. Remove all ignition sources and ensure sufficient ventilation.

For emergency responders: Use nitrile protection gloves and self-contained breathing apparatus.

6.2. Environmental precautions

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

Safety Data Sheet

Efaterm Laquer 0303

Replaces date: 08/04/2019

Revision date: 18/03/2020

Version: 2.0.0

Prevent major quantities of spillage from being discharged into the sewage system or water by banking the spillage with sand or the like and collecting it. Clean the contaminated area with a suitable cleaning agent, but do not use solvent.

6.4. Reference to other sections

Also see item 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

The product may be charged electrostatically. Always use underground wire when transferring from one container to another. Personnel should wear antistatic shoes and clothing. Floors should be conductive. Do not use tools which may produce sparks. Avoid contact with eyes and skin. Avoid inhaling vapors and spray mists. Vapors may form explosive mixtures with air. Prevent the formation of flammable or explosive mixtures. Do not use this material near naked flames or any other ignition source. Electrical installations must be protected according to regulations.

7.2. Conditions for safe storage, including any incompatibilities

The product must be kept away from children. Store in a tightly closed container and in accordance with the current regulations in a dry and well-ventilated place away from food. Keep away from ignition sources, oxidizing agents and strong acidic and basic substances. No smoking and use of open fire. No admittance to unauthorized persons. Opened containers must be carefully closed and stored upright to prevent any leakage.

7.3. Specific end use(s)

Applications is mentioned in item 1.2.

Other Information: Smoking and the consumption of food and drink are not permitted in work rooms. Personal protective equipment: Refer to section 8.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit

Substance name	Time period	ppm	mg/m ³	fiber/cm ³	Comments	Remarks
propan-2-ol	15m	500	1250			
propan-2-ol	8h	400	999			
n-butyl acetate	8h	150	724			
n-butyl acetate	15m	200	966			
2-methylpropan-1-ol	8h	50	154			
2-methylpropan-1-ol	15m	75	231			
butan-1-ol	8h					Sk
butan-1-ol	15m	50	154			Sk
Xylene	15m	100	441			BMGV
Xylene	8h	50	220			BMGV
2-butoxyethyl acetate	8h	20	133			Sk
2-butoxyethyl acetate	15m	50	332			Sk
ethylbenzene	8h	100	441			Sk
ethylbenzene	15m	125	552			Sk

Safety Data Sheet

Efaterm Laquer 0303

Replaces date: 08/04/2019

Revision date: 18/03/2020

Version: 2.0.0

2-methoxy-1-methylethyl acetate	8h	50	274			Sk
2-methoxy-1-methylethyl acetate	15m	100	548			Sk
N-methyl-2-pyrrolidone	8h	10	40			Sk
N-methyl-2-pyrrolidone	15m	20	80			Sk
formaldehyde ... %	8h	2	2.5			
formaldehyde ... %	15m	2	2.5			

BMGV = Biological monitoring guidance value (listed in Table 2).

Sk = Can be absorbed through the skin.

Legal basis:

EH40/2005 Workplace exposure limits incl. supplement from October 2007.

PNEC

propan-2-ol, cas-no 67-63-0				
Exposure	Value	Assessment Factor	Extrapolation Method	Note
Soil	28 mg/kg			
Freshwater	140,9 mg/l			
Marine water	140,9 mg/l			
n-butyl acetate, cas-no 123-86-4				
Exposure	Value	Assessment Factor	Extrapolation Method	Note
Freshwater - sediment	0,981 mg/kg			
Marine water - sediment	0,0981 mg/kg			
Soil	0,0903 mg/kg			
Marine water	0,018 mg/l			
Freshwater	0,18 mg/l			
2-methylpropan-1-ol, cas-no 78-83-1				
Exposure	Value	Assessment Factor	Extrapolation Method	Note
Freshwater - sediment	1,52 mg/kg			
Freshwater	0.4 mg/l			
Marine water - sediment	0,152 mg/kg			
Marine water	0,04 mg/l			
Soil	0,0699 mg/kg			
butan-1-ol, cas-no 71-36-3				
Exposure	Value	Assessment Factor	Extrapolation Method	Note
Freshwater	0,082 mg/l			
Marine water	0,0082 mg/l			
Freshwater - sediment	0,178 mg/kg			
Marine water - sediment	0,0178 mg/kg			
Soil	0,015 mg/kg			
Xylene, cas-no 1330-20-7				
Exposure	Value	Assessment Factor	Extrapolation Method	Note
Soil	2,31 mg/kg			
Freshwater	0,327 mg/l			
Marine water	0,327 mg/l			
Freshwater - sediment	12,64 mg/kg			
Marine water - sediment	12,64 mg/kg			

Safety Data Sheet

Efaterm Laquer 0303

Replaces date: 08/04/2019

Revision date: 18/03/2020

Version: 2.0.0

2-butoxyethyl acetate, cas-no 112-07-2				
Exposure	Value	Assessment Factor	Extrapolation Method	Note
Marine water - sediment	0,203 mg/kg dw			
Marine water	0,0304 mg/l			
Freshwater	0,304 mg/l			
Soil	0,42 mg/kg			
Freshwater - sediment	2,03 mg/kg dw			
ethylbenzene, cas-no 100-41-4				
Exposure	Value	Assessment Factor	Extrapolation Method	Note
Freshwater	0,1 mg/l			
Marine water	0,01 mg/l			
Freshwater - sediment	13,7 mg/kg			
Soil	2,68 mg/kg			
2-methoxy-1-methylethyl acetate, cas-no 108-65-6				
Exposure	Value	Assessment Factor	Extrapolation Method	Note
Freshwater	0,635 mg/l			
Marine water	0,0635 mg/l			
Freshwater - sediment	3,29 mg/kg			
Soil	0,29 mg/kg			
Marine water - sediment	0,329 mg/kg			
formaldehyde ... %, cas-no 50-00-0				
Exposure	Value	Assessment Factor	Extrapolation Method	Note
Freshwater	0,44 mg/l			
Marine water	0,44 mg/l			
Freshwater - sediment	2,3 mg/kg			
Marine water - sediment	2,3 mg/kg			
Soil	0,2 mg/kg			

DNEL - workers

propan-2-ol, cas-no 67-63-0					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Dermal	888 mg/kg bw/day	Long-term exposure		Systemic effects	
Inhalation	500 mg/m ³	Long-term exposure		Systemic effects	
n-butyl acetate, cas-no 123-86-4					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Dermal	7 ng/kg bw/day	Long-term exposure		Systemic effects	
Inhalation	960 mg/m ³	Acute / short-term exposure		Local effects	
Inhalation	480 mg/m ³	Long-term exposure		Systemic effects	
Inhalation	480 mg/m ³	Long-term exposure		Local effects	
Inhalation	960 mg/m ³	Acute / short-term exposure		Systemic effects	
2-methylpropan-1-ol, cas-no 78-83-1					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation	310 mg/m ³	Long-term exposure		Local effects	
butan-1-ol, cas-no 71-36-3					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation	310 mg/m ³	Long-term exposure		Local effects	

Safety Data Sheet

Efaterm Laquer 0303

Replaces date: 08/04/2019

Revision date: 18/03/2020

Version: 2.0.0

Xylene, cas-no 1330-20-7					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation	221 mg/m ³	Long-term exposure		Local effects	
Inhalation	442 mg/m ³	Acute / short-term exposure		Systemic effects	
Inhalation	289 mg/m ³	Acute / short-term exposure		Local effects	
Dermal	180 mg/kg bw/day	Long-term exposure		Systemic effects	
2-butoxyethyl acetate, cas-no 112-07-2					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation	133 mg/m ³	Long-term exposure		Systemic effects	
Dermal	102 mg/kg bw/day	Long-term exposure		Systemic effects	
Inhalation	333 mg/m ³	Acute / short-term exposure		Local effects	
Inhalation	775 mg/m ³	Acute / short-term exposure		Systemic effects	
Dermal	102 mg/kg bw/day	Acute / short-term exposure		Systemic effects	
ethylbenzene, cas-no 100-41-4					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Dermal	180 mg/kg bw/day	Long-term exposure		Systemic effects	
Inhalation	77 mg/m ³	Long-term exposure		Systemic effects	
Inhalation	293 mg/m ³	Acute / short-term exposure		Local effects	
2-methoxy-1-methylethyl acetate, cas-no 108-65-6					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation	275 mg/m ³	Long-term exposure		Systemic effects	
Inhalation	550 mg/m ³	Acute / short-term exposure		Local effects	
Dermal	153,5 mg/kg bw/day	Long-term exposure		Systemic effects	
butyl-glycollate-, cas-no 7397-62-8					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Dermal	34,7 mg/kg	Long-term exposure		Systemic effects	
Inhalation	21,2 mg/m ³	Long-term exposure		Systemic effects	
formaldehyde ... %, cas-no 50-00-0					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Inhalation	0,5 mg/m ³	Long-term exposure		Local effects	
Dermal	240 mg/kg bw/day	Long-term exposure		Systemic effects	
Dermal	0,037 mg/cm ²	Long-term exposure		Local effects	
Inhalation	9 mg/m ³	Long-term exposure		Systemic effects	
Inhalation	0,75 mg/m ³	Acute / short-term exposure		Local effects	

DNEL - general population

propan-2-ol, cas-no 67-63-0					
Exposure	Value	Assessment Factor	Dose Descriptor	Main Impact Parameter	Note
Dermal	319 mg/kg bw/day	Long-term exposure		Systemic effects	

Safety Data Sheet

Efaterm Laquer 0303

Replaces date: 08/04/2019

Revision date: 18/03/2020

Version: 2.0.0

Inhalation	89 mg/m ³	Long-term exposure		Systemic effects	
Oral	26 mg/kg	Long-term exposure		Systemic effects	

Biological threshold values: See above.

Other Information: See above.

8.2. Exposure controls

Appropriate engineering controls: All work must be planned with a view to limit the breathing of fumes and the exposure to the skin. Work under effective process ventilation (e.g. local exhaust ventilation). If this is not possible, use respiratory protection.

Personal protective equipment, eye/face protection: Use suitable protective goggles or full face mask for protection against splashes.

Personal protective equipment, skin protection: If possible, wear special work clothes. When spraying wear coveralls.

Personal protective equipment, hand protection: Use nitrile protection gloves. A 15-mil thickness glove provides a one-hour breakthrough-time. Follow the glove manufacturer's recommendations on use and replacement.

Personal protective equipment, respiratory protection: Use compressed-air full face mask.

Environmental exposure controls: It must be ensured that local regulations for discharge are met.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Parameter	Value/unit
State	Liquid
Colour	Yellowish
Odour	Odour of organic solvent.
Solubility	Soluble in: Organic solvents.
Explosive properties	See explosive limits
Oxidising properties	No information available

Parameter	Value/unit	Remarks
pH (solution for use)		Irrelevant
pH (concentrate)		Irrelevant
Melting point	No data	
Freezing point	No data	
Initial boiling point and boiling range	No data	
Flash Point	> 23 °C	
Evaporation rate	No data	
Flammability (solid, gas)	No data	
Flammability limits	No data	
Explosion limits	1 - 12	
Vapour pressure	No data	
Vapour density	No data	
Relative density	No data	
Partition coefficient n-octanol/water	No data	
Auto-ignition temperature	No data	
Decomposition temperature	No data	
Viscosity	30 - 40 Sec. 4 mm cup	
Odour threshold	No data	

Safety Data Sheet

Efaterm Laquer 0303

Replaces date: 08/04/2019

Revision date: 18/03/2020

Version: 2.0.0

9.2 Other information

Parameter	Value/unit	Remarks
Density	1,0 g/ml	
Fire class	II-1	
Weight % organic solvents	44	
VOC (G/liter)	440	

Other Information: Solubility in water: Insoluble in water. Fat solubility: irrelevant

SECTION 10: Stability and reactivity

10.1. Reactivity

See below.

10.2. Chemical stability

Stable under recommended storage and handling conditions.

10.3. Possibility of hazardous reactions

Ignitable at temperatures above the flash point. The fumes can ignite by e.g. a spark, a warm surface or a glow. The fumes can mix to explosive mixtures with air. At room temperature the fumes are more heavily than air and can spread along the floor.

10.4. Conditions to avoid

Stable at normal temperature. When exposed to high temperatures, toxic decomposition products may be formed.

10.5. Incompatible materials

To prevent heat-generating reactions, keep the product away from oxidizing agents and strong acidic and basic substances.

10.6. Hazardous decomposition products

carbon monoxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

propan-2-ol, cas-no 67-63-0

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		5840mg/kg bw		OECD 401	

n-butyl acetate, cas-no 123-86-4

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		10760mg/kg bw		OECD 423	

2-methylpropan-1-ol, cas-no 78-83-1

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		3350mg/kg bw			

butan-1-ol, cas-no 71-36-3

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		2510mg/kg bw			

Xylene, cas-no 1330-20-7

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		> 3500mg/kg bw			

2-butoxyethyl acetate, cas-no 112-07-2

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source

Safety Data Sheet

Efaterm Laquer 0303

Replaces date: 08/04/2019

Revision date: 18/03/2020

Version: 2.0.0

Rat	LD50		1880mg/kg bw			
-----	------	--	--------------	--	--	--

ethylbenzene, cas-no 100-41-4

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		3500mg/kg bw			

2-methoxy-1-methylethyl acetate, cas-no 108-65-6

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
	LD50		6190mg/kg bw			

Ingestion of large quantities may cause gastrointestinal disorders.

Acute toxicity - dermal

propan-2-ol, cas-no 67-63-0

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit	LD50		13900mg/kg bw		OECD 402	

n-butyl acetate, cas-no 123-86-4

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit	LD50		> 14112mg/kg bw		OECD 402	

2-methylpropan-1-ol, cas-no 78-83-1

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

butan-1-ol, cas-no 71-36-3

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit	LD50		3400mg/kg			

Xylene, cas-no 1330-20-7

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit	LD50		12126 mg/kg bw			

2-butoxyethyl acetate, cas-no 112-07-2

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit	LD50		1500mg/kg bw			

ethylbenzene, cas-no 100-41-4

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit	LD50		15.4mg/kg bw			

2-methoxy-1-methylethyl acetate, cas-no 108-65-6

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

formaldehyde ... %, cas-no 50-00-0

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit	LD50		270mg/kg			

Organic solvents have a degreasing effect on the skin. Organic solvents may be absorbed through skin.

Acute toxicity - inhalation

propan-2-ol, cas-no 67-63-0

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LC50 (vapour)	6 h	> 25mg/l		OECD 403	

n-butyl acetate, cas-no 123-86-4

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LC50 (dust/mist)	4 h	23.4mg/l		OECD 403	

2-methylpropan-1-ol, cas-no 78-83-1

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source

Safety Data Sheet

Efaterm Laquer 0303

Replaces date: 08/04/2019

Revision date: 18/03/2020

Version: 2.0.0

Rat	LC50 (dust/mist)	6 h	> 18.18mg/l			
-----	------------------	-----	-------------	--	--	--

butan-1-ol, cas-no 71-36-3

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50	4 h	> 17.76mg/l			

Xylene, cas-no 1330-20-7

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LC50 (vapour)	4 h	11mg/l			

2-butoxyethyl acetate, cas-no 112-07-2

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	#Not translated#	4 h	> 400ppm			

ethylbenzene, cas-no 100-41-4

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LC50 (vapour)	4 h	17.2mg/l			

2-methoxy-1-methylethyl acetate, cas-no 108-65-6

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LC50 (dust/mist)	4 h	1883mg/l			

formaldehyde ... %, cas-no 50-00-0

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
			100mg/kg			
		4 h	0.86mg/l			

Inhalation of vapors may cause symptoms of poisoning such as memory and concentration difficulties, abnormal tiredness, irritability and, in extreme cases, unconsciousness. Protracted inhalation in high concentrations may cause permanent damage to the central nervous system.

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Causes serious eye irritation.

Respiratory sensitisation or skin sensitisation: No known hazards.

Germ cell mutagenicity: Would not be expected germ cell mutagen

Reproductive toxicity: Would not be expected to be a reproductive toxicant.

Single STOT exposure: May cause drowsiness or dizziness.

Repeated STOT exposure: No known hazards.

Aspiration hazard: No known hazards.

SECTION 12: Ecological information

12.1. Toxicity

propan-2-ol, cas-no 67-63-0

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Acute fish	Pimephales promelas	96 h	LC50	9640mg/l		OECD 203	
Acute Daphnia	Daphnia magna	24 h	LC50	9714mg/l		#Not translated#	
Acute algae	Scenedesmus subspicatus	72 h	EC50	> 100mg/l			

Safety Data Sheet

Efaterm Laquer 0303

Replaces date: 08/04/2019

Revision date: 18/03/2020

Version: 2.0.0

n-butyl acetate, cas-no 123-86-4

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Acute daphnia	Daphnia magna	48 h	EC50	44mg/l			
Acute fish	#Not translated#	96 h	EC50	44mg/l		OECD 203	
Acute algae		72 h	EC50	647.7mg/l			

2-methylpropan-1-ol, cas-no 78-83-1

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Acute fish	#Not translated#	96 h	LC50	1430mg/l			
Acute daphnia	Daphnia pulex	48 h	EC50	1100mg/l			
Acute algae	Pseudokirchneriella subcapitata	72 h	ErC50	1799mg/l			

butan-1-ol, cas-no 71-36-3

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Acute algae	Desmodesmus subspicatus	72 h	EC50	> 500mg/l			
Acute Daphnia	Daphnia magna	48 h	EC50	1328mg/l			
Acute fish	Pimephales promelas	96 h	LC50	1376mg/l			

Xylene, cas-no 1330-20-7

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Acute algae	Pseudokirchneriella subcapitata	72 h	EC50	2.2mg/l		OECD 201	
Acute Daphnia	Daphnia magna	24 h	IC50	1mg/l		OECD 202	
Acute fish	Oncorhynchus mykiss	96 h	LC50	2.6mg/l		OECD 203	

2-butoxyethyl acetate, cas-no 112-07-2

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Acute fish	Oncorhynchus mykiss	96 h	LC50	28.3mg/l			
Acute daphnia	#Not translated#	48 h	EC50	37mg/l			
Acute algae	Pseudokirchneriella subcapitata	72 h	EC50	1570mg/l			

ethylbenzene, cas-no 100-41-4

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Acute daphnia	Daphnia magna	48 h	EC50	2.4mg/l			
Acute fish	Pseudokirchneriella subcapitata	72 h	LC50	4.6mg/l			

2-methoxy-1-methylethyl acetate, cas-no 108-65-6

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
	Invertebrates		NOEC	> 100mg/l			
Acute algae	Selenastrum capricornutum	72 h	EC50	- 1000mg/l		OECD 201	

Safety Data Sheet

Efaterm Laquer 0303

Replaces date: 08/04/2019

Revision date: 18/03/2020

Version: 2.0.0

Acute fish	Oncorhynchus mykiss	96 h	LC50	134mg/l		OECD 203	
Acute Daphnia	Daphnia magna	48 h	EC50	> 500mg/l			

formaldehyde ... %, cas-no 50-00-0

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Acute fish		96 h	LC50	6.7mg/l			
Acute Daphnia	Daphnia pulex	48 h	EC50	5.8mg/l		OECD 202	
Acute algae	Desmodesmus subspicatus	72 h	EC50	4.89mg/l		OECD 201	

12.2. Persistence and degradability

propan-2-ol, cas-no 67-63-0

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
		5 d		53%			

n-butyl acetate, cas-no 123-86-4

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
		28 d	BOD	83%		BOD:ThOD	

butan-1-ol, cas-no 71-36-3

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
			Log Pow	88			

2-butoxyethyl acetate, cas-no 112-07-2

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
		28 d		88%			

No information available

12.3. Bioaccumulative potential

2-methoxy-1-methylethyl acetate, cas-no 108-65-6

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
			Log Pow	~ 43			

No information available

12.4. Mobility in soil

The product is insoluble in water and will spread out on the surface.

12.5. Results of PBT and vPvB assessment

The product does not contain any PBT or vPvB substances.

12.6. Other adverse effects

No information available

Other Information

Do not dispose of this product in drains, watercourses, or on the ground.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Avoid discharge to drain or surface water.

Product residues are classified as chemical waste.

Category of waste: Waste-code: 08 01 11

Safety Data Sheet

Efaterm Laquer 0303

Replaces date: 08/04/2019

Revision date: 18/03/2020

Version: 2.0.0

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN-No.:	1263	14.4. Packing group:	III
14.2. UN proper shipping name:	PAINT	14.5. Environmental hazards:	The product should not be labelled as an environmental hazard (symbol: fish and tree).
14.3. Transport hazard class(es):	3		
Hazard label(s):	3		
Hazard identification number:	30	Tunnel restriction code:	D/E

Inland water ways transport (ADN)

14.1. UN-No.:	1263	14.4. Packing group:	III
14.2. UN proper shipping name:	PAINT	14.5. Environmental hazards:	The product should not be labelled as an environmental hazard (symbol: fish and tree).
14.3. Transport hazard class(es):	3		
Hazard label(s):	3		
Transport in tank vessels:			

Sea transport (IMDG)

14.1. UN-No.:	1263	14.4. Packing group:	III
14.2. UN proper shipping name:	PAINT	14.5. Environmental hazards:	The product is not a Marine Pollutant (MP).
14.3. Transport hazard class(es):	3	Environmental Hazardous Substance Name(s):	
Hazard label(s):	3		
EmS:	F-E, S-E	IMDG Code segregation group:	- None -

Air transport (ICAO-TI / IATA-DGR)

14.1. UN-No.:	1263	14.4. Packing group:	III
14.2. UN proper shipping name:	PAINT	14.5. Environmental hazards:	The product should not be labelled as an environmental hazard (symbol: fish and tree).
14.3. Transport hazard class(es):	3		
Hazard label(s):	3		

14.6. Special precautions for user

Irrelevant.

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

Irrelevant.

SECTION 15: Regulatory information

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

Special Provisions:

15.2. Chemical Safety Assessment

Safety Data Sheet

Efaterm Laquer 0303

Replaces date: 08/04/2019

Revision date: 18/03/2020

Version: 2.0.0

Other Information: Chemical safety assessment has not been performed.

SECTION 16: Other information

Version history and indication of changes

Version	Revision date	Responsible	Changes
2.0.0	18/03/2020	GK	2, 3, 8, 9, 11, 12, 14
1.0.0	08/04/2019	GK	

Abbreviations: DNEL: Derived No Effect Level. PNEC: Predicted No Effect Concentration.

References to literature and data sources: REACH: REGULATION OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals. CLP: REGULATION OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on classification, labelling and packaging of substances and mixtures.

Other Information: The information in this Material Safety Data Sheet is based upon our knowledge and on European Union legislation. The user's working conditions are outside our control. It is the responsibility of the users to fulfil the requirements set by National Legislation. The information is no guarantee of the properties of the product. The Material Safety Data Sheet may only be reproduced with the permission of the manufacturer.

Training advice: The instructions in this Material Safety Data Sheet are given on the assumption that the product is used as stated in item 1. Restrictions of use and special training requirements must also be complied with. The information in this Material Safety Data Sheet should be regarded as a description of the safety issues concerning the product.

List of relevant H-statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H360D	May damage the unborn child.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.

Document language: GB