ETHYL L-(-)- LACTATE BIOBASED

□□□□□□□□

□□ (EU) 2020/878□ □□ □□□ REACH □□ (EC) 1907/2006□ □□
□□ □□□□: 9/29/2026 □□: 1.0

□□ 1: □□□□□ □□□ □□ □□

1.1. □□□□

□□ □□	:	□□
□□□	:	ETHYL L-(-)- LACTATE BIOBASED
IUPAC □□	:	(−)-Ethyl (*S*)-2-*hydroxypropionate*
EC □□ □□	:	211-694-1
EC □□	:	607-129-00-7
CAS □□	:	687-47-8
□□ □□	:	3745G
□□ □□	:	Esters
□□□	:	C5H10O3
□□□	:	L-Ethyl lactate, 2-Hydroxypropanoic acid ethyl ester

1.2. □□□□ □□ □□□□ □□ □□ □□ □□

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□□□□/□□□□ □□	:	Laboratory chemicals □□□ □□

1.3. □□□□□□□□ □□□ □□

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info@lobachemie.com, www.lobachemie.com

1.4. □□□□□□

□□ □□ □□	:	+ 91 22 6663 6663 (9:00am - 6:00 pm)

□□ 2: □□□·□□□

2.1. □□□·□□□ □□

Regulation (EC) No.1272/2008 [CLP]□ □□ □□

□□□ □□, □□ 3	H226
□□ □ □□□/□ □□□, □□ 1	H318
□□□□□□ □□ - 1□ □□, □□ 3, □□□□ □□	H335

H-□□ □ EUH-□□ □□: □□ 16 □□

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2.2. □□□□□□□ □□□ □□□□ □□

□□ (EC) No. 1272/2008□ □□ □□ □□[CLP]

□□ □□ □□□□(CLP) :



GHS02 GHS05 GHS07

□□□ (CLP)	:	□□
□□·□□ □□ (CLP)	:	H226 - □□□ □□ □ □□. H318 - □□ □□ □□□ □□□. H335 - □□□ □□□ □□□ □ □□.
□□ □□ □□(CLP)	:	P210 - □·□□□ □□·□□□·□□·□□ □□□□□□□ □□□□□. □□. P233 - □□□ □□□ □□□□□.

P261 - □□·□·□□·□□□·□□·□□□□ □ □□□ □□□□.
P280 - respiratory protection, □□□□, □□□, □□□, □□□□□ □(□) □□□□□.
P305+P351+P338 - □□ □□□□: □ □□ □□ □□□□ □□□□. □□□□ □□□ □□□ □□□□□. □□ □ □□□.

2.3. □□ □□

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□□ 3: □□□□□ □□ □ □□□

3.1. □□□□

□□ □□ : □□□□□□

□□	□□□□	%
ETHYL L-(-)- LACTATE	CAS □□: 687-47-8 EC □□: 607-129-00-7 EC □□ □□: 211-694-1	100

□□ 4: □□□□□□

4.1. □□□□ □□

□□ □□ □□ : If you feel unwell, seek medical advice.
□□□□ □ : □□□ □□□ □□ □□□ □□□ □□□□ □□ □□□ □□□ □□□□.
□□□ □□□□ □ : □□□ □□ □□□□[□□ □□□□□]. □□□ □□ □□□ □□ □□□□.
□□ □□□□ □ : □□□□□ □□ □□ □□ □□□□.
□□□ □ : □□□□ □□□ □□□□(□□)□ □□□ □□□□.
Self protection of the first-aider : □□□□□□ □□□ □□□ □□□□, □□□□ □□□□□□ □□□□□□□(□□ 8 □□).

4.2. □□ □ □□□ □□ □□□ □□ □ □□

□□ □ □□/□□ : None under normal conditions.
□□ □□ □ □□/□□ : None under normal conditions.
□ □□ □ □□/□□ : None under normal conditions.
□□ □ □□/□□ : None under normal conditions.

4.3. □□□□ □□ □ □□ □□ □□ □□ □□

Treat symptomatically.

□□ 5: □□·□□□ □□□□

5.1. □□□ □□□

□□□ □□□ : Water spray. Dry powder. Foam. Carbon dioxide.
□□□□ □□□ : Do not use a heavy water stream.

5.2. □□□□□□□ □□□ □□ □□□

□□ □□ : □□□ □□ □ □□.
□□ □□ : No direct explosion hazard.
□□ □ □□□ □□□ □□ : Toxic fumes may be released.

5.3. □□□□ □□□□ □ □□□□

□□ □□ : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.
□□ □□ □ □□ : Do not attempt to take action without suitable protective equipment. □□□ □□□□□. Complete protective clothing.

물질안전보건자료
규정 (EU) 2020/878에 의해 수정된 REACH 규정 (EC) 1907/2006에 따름

섹션 6: 누출사고시 대처방법

6.1. 인체를 보호하기 위해 필요한 조치사항 및 보호구

일반 조치 : 안전하게 처리하는 것이 가능하면 누출을 막으시오. 제품이 하수구 또는 상하수도로 들어갈 경우 당국에 통보. 물질손 상을 방지하기 위해 누출물을 흡수시키시오.

비응급 대응 요원

보호 장비 : Wear recommended personal protective equipment.
응급 조치 : Ventilate spillage area. 화염, 스파크에 노출 금지. 금연.

응급 대응 요원

보호 장비 : Do not attempt to take action without suitable protective equipment. 보다 자세한 정보는 섹션 8: "노출방 지 및 개인보호구"를 참조하시오.

응급 조치 : Evacuate unnecessary personnel. 안전하게 처리하는 것이 가능하면 누출을 막으시오.

6.2. 환경을 보호하기 위해 필요한 조치사항

환경으로 배출하지 마시오.

6.3. 정화 또는 제거 방법

봉쇄용 : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.
세척 방법 : Take up liquid spill into absorbent material. 제품이 하수구 또는 상하수도로 들어갈 경우 당국에 통보. 그 밖의 참고사항 : Dispose of materials or solid residues at an authorized site.

6.4. 기타 항목 참조

For further information refer to section 13.

섹션 7: 취급 및 저장방법

7.1. 안전취급요령

취급 시 발생가능한 추가 위험 : 일반적인 사용 조건에서는 위험한 것으로 간주되지 않음.

안전취급요령 : Ensure good ventilation of the work station. 열, 고온의 표면, 스파크, 화염 및 그 밖의 점화원으로부터 멀리하 시오. 금연. 용기와 수용설비를 접지하시오. 스파크가 발생하지 않는 도구를 사용하시오. 정전기 방지 조치를 취하시

오. 용기 내 인화성 증기가 축적될 수 있음. Use explosion-proof equipment. 개인 보호구를 착용하시오.
위생 조치 : 이 제품을 사용할 때에는 먹거나, 마시거나 흡연하지 마시오. Always wash hands after handling the product.

7.2. 피해야할 조건을 포함한 안전한 저장 방법

기술적 조치 : 용기와 수용설비를 접지하시오.
보관 조건 : 환기가 잘 되는 곳에 보관하시오. 저온으로 유지하시오. 용기를 단단히 밀폐하시오.

포장재 : Always store product in container of same material as original container.

스위스

보관 등급(LK) : LK 3 - 인화성 액체

7.3. 특정 최종 사용

자료 없음

섹션 8: 노출방지 및 개인보호구

8.1. 제어 매개 변수

자료 없음

8.2. 노출방지

적절한 공학적 관리
적절한 공학적 관리:

Ensure good ventilation of the work station.

□□ □□□

□□ □□□:

Wear recommended personal protective equipment.

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□ □□:

Chemical goggles or safety glasses

Skin protection

□□ □□:

Wear a mask

□ □□:

Protective gloves

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Wear appropriate mask

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9.1. □□□□ □□□□□ □□□ □□ □□

□□□ □□	:	□□
□□	:	Colourless.
□□	:	Clear liquid.
□□□	:	118.13 g/mol
□□	:	ester like.
□□ □□	:	0.2 – 1.66 ppm
□□□	:	□□□□
□□□	:	-26 °C
□□ □□□□ □□□ □□	:	154 °C
□□□	:	□□□ □□ □ □□
□□ □□□	:	1.5 Vol-%
□□ □□□	:	16.4 Vol-%
□□□	:	46 °C
□□□□ □□	:	400 °C
□□ □□	:	□□□□
pH	:	4 at 20 °C
pH □□□ □□	:	50 g/L
□□(□□□)	:	2.692 – 2.745 mm²/s
□□(□□□□)	:	2.8 mPa·s at 20 °C
□□□	:	□: Miscible □□□: Miscible □□□: Miscible
Partition coefficient n-octanol/water (Log Kow)	:	□□□□
Partition coefficient n-octanol/water (Log Pow)	:	0.06
□□□	:	1.7 mm Hg at 20°C
50°C□□□ □□□	:	□□□□
□□	:	1.02 – 1.04 g/cm³ at 20 °C
□□	:	□□□□
20°C□□□ □□ □□ □□	:	4.07 (Air = 1)
□□ □□	:	□□□□

9.2. □ □□ □□□□

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□□□ : 1.4124 at 20 °C/D

□□ 10: □□□ □ □□□

10.1. □□□

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10.2. □□□ □□□

Stable under normal conditions.

10.3. □□ □□□ □□□

No dangerous reactions known under normal conditions of use.

10.4. □□□ □ □□

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10.5. □□□ □ □□

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10.6. □□□ □□□□ □□□□

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

□□ 11: □□□ □□ □□

11.1. □□ (EC) No 1272/2008□ □□□, □□□ □□□ □□ □□

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pH: 4 at 20 °C

□□ □ □□ □□ □□□ : □□ □□ □□□ □□□.

pH: 4 at 20 °C

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ETHYL L-(-)- LACTATE BIOBASED (687-47-8)	
□□(□□□)	2.692 – 2.745 mm²/s

11.2. □□ □□ □□

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□□ 12: □□□ □□□ □□

12.1. □□

□□□ - □□ : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

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□□ □□□□ □□□ : □□□□ □□

12.2. □□□ □ □□□

ETHYL L-(-)- LACTATE BIOBASED (687-47-8)	
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12.3. □□ □□□

ETHYL L-(-)- LACTATE BIOBASED (687-47-8)	
Partition coefficient n-octanol/water (Log Pow)	0.06

12.4. □□ □□□

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12.5. PBT □ vPvB □□ □□

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12.6. □□□ □□ □□

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12.7. □□ □□ □□

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□□ 13: □□□ □□□□

13.1. □□□ □□□

□□ □□(□□□) : Disposal must be done according to official regulations.

□□□ □□□ : Dispose of contents/container in accordance with licensed collector’s sorting instructions.

□□ □□ □□ □□ : Disposal must be done according to official regulations.

□□/□□ □□ □□□□ : Disposal must be done according to official regulations.

□□ □□ : □□ □ □□□ □□□ □□□ □ □□. Do not re-use empty containers.

Ecological waste information : The waste of the product should be considered as hazardous as the product itself, with the likelihood of impacting the environment in the same way. Consider the handling and disposal of the waste as defined by the product itself.

□□ 14: □□□ □□□ □□

ADR / IMDG / IATA / ADN / RID□ □□

14.1. UN □□ □□ ID □□

UN-□□ (ADR) : UN 1192

UN-□□ (IMDG) : UN 1192

UN-□□ (IATA) : UN 1192

UN-□□ (ADN) : UN 1192

UN-□□ (RID) : UN 1192

14.2. UN □□ □□□

□□ □□□ (ADR) : □□□ □□

□□ □□□ (IMDG)	:	ETHYL LACTATE
□□ □□□ (IATA)	:	Ethyl lactate
□□ □□□ (ADN)	:	□□□ □□
□□ □□□ (RID)	:	□□□ □□
□□ □□ □□ (ADR) (ADR)	:	UN 1192 □□□ □□, 3, III, (D/E)
Transport document description (IMDG)	:	UN 1192 ETHYL LACTATE, 3, III (46°C c.c.)
Transport document description (IATA)	:	UN 1192 Ethyl lactate, 3, III
Transport document description (ADN)	:	UN 1192 □□□ □□, 3, III
Transport document description (RID)	:	UN 1192 □□□ □□, 3, III

14.3. □□□□□ □□□ □□

ADR

□□□□□ □□□ □□ (ADR)	:	3
□□ □□ (ADR)	:	3
	:	

IMDG

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□□ □□ (IMDG)	:	3
	:	

IATA

□□□□□ □□□ □□ (IATA)	:	3
□□ □□ (IATA)	:	3
	:	

ADN

□□□□□ □□□ □□ (ADN)	:	3
□□ □□ (ADN)	:	3
	:	

RID

□□□□□ □□□ □□ (RID)	:	3
□□ □□ (RID)	:	3
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14.4. □□□□

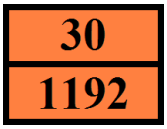
□□ □□ (ADR)	:	III
□□ □□(IMDG)	:	III
□□ □□ (IATA)	:	III
□□ □□(ADN)	:	III
□□ □□(RID)	:	III

14.5. □□ □□□

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□□□□□□	:	□□□
EmS-No. (□□)	:	F-E
EmS-No. (□□)	:	S-D
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14.6. □□□□ □□ □□ □□□□

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□□ □□ (ADR)	:	F1
□□□(ADR)	:	5l
□□□(ADR)	:	E1
□□ □□(ADR)	:	P001, IBC03, LP01, R001
□□ □□ □□ □□ □□(ADR)	:	MP19
□□□ □□ □ □□ □□□□ □□ (ADR)	:	T2
□□□ □□ □ □□ □□□□ □□ □□ (ADR)	:	TP1
□□ □□(ADR)	:	LGBF
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□□ □□(ADR)	:	3
□□ □□ □□ □□ - □□(ADR)	:	V12
□□ □□ □□ □□ - □□(ADR)	:	S2
□□ □□ □□(Kemler □□)	:	30
Orange plates (□□□□□□)	:	
□□ □□ □□ (ADR)	:	D/E
EAC □□	:	•2Y

□□ □□

□□ □□(IMDG)	:	5 L
□□□(IMDG)	:	E1
□□ □□ (IMDG)	:	P001, LP01
IBC □□ □□(IMDG)	:	IBC03
□□ □□ (IMDG)	:	T2
□□ □□ □□ (IMDG)	:	TP1
□□ □□ (IMDG)	:	A
□□□ (IMDG)	:	46°C c.c.
□□□ □□□□ (IMDG)	:	Colourless liquid. Flashpoint: 46°C c.c. Explosive limits: 1.5% to 11.4%. Miscible with water.

□□ □□

PCA □□ □□(IATA)	:	E1
PCA □□ □□(IATA)	:	Y344
PCA □□ □□ □□ □□□(IATA)	:	10L
PCA □□ □□(IATA)	:	355
PCA □□ □□□(IATA)	:	60L
CAO □□ □□(IATA)	:	366
CAO □□ □□□(IATA)	:	220L
ERG □□(IATA)	:	3L

□□ □□ □□

□□ □□(ADN)	:	F1
□□□(ADN)	:	5 L
□□□(ADN)	:	E1
□□ □□(ADN)	:	PP, EX, A
□□(ADN)	:	VE01
□□ □□/□□□ □□(ADN)	:	0

□□ □□

□□ □□(RID)	:	F1
□□ □□(RID)	:	5L

□□□(RID)	:	E1
□□ □□ (RID)	:	P001, IBC03, LP01, R001
□□ □□ □□ □□ □□(RID)	:	MP19
□□□ □□ □ □□ □□□□ □□ (RID)	:	T2
□□□ □□ □ □□ □□□□ □□ □□ (RID)	:	TP1
RID □□□ □□ □□(RID)	:	LGBF
□□ □□(RID)	:	3
□□ □□ □□ □□ - □□(RID)	:	W12
□□ □□□	:	CE4
□□□ □□ □□ (RID)	:	30

14.7. □□□□□□(IMO)□ □□ □□ □□ □□

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□□ 15: □□ □□□□

15.1. □□, □□ □ □□□ □□□□ □□□□ □□ □□□□ □□ □□ □□/□□

EU □□

REACH □□□ XVII (□□ □□)

EU restriction □□ (REACH Annex XVII)	
□□ □□	□□ □□
3(a)	ETHYL L-(-)- LACTATE BIOBASED

REACH □□□ XIV (□□ □□)

REACH □□□ XIV (□□ □□)□ □□□□ □□

REACH □□ □□ □□ (SVHC)

REACH □□ □□ □□□ □□□□ □□

PIC □□ (□□□□□□)

PIC □□□ □□□□ □□ (□□ EU 649/2012)

POP □□ (□□□ □□ □□□□)

POP □□□ □□□□ □□ (□□ EU 2019/1021)

Ozone Regulation (2024/590)

Not listed on the Ozone Depletion list (Regulation EU 2024/590)

□□□□ □□(428/2009)

Not listed on the COUNCIL REGULATION (EC) of dual-use items.

□□ □□□□ □□ (2019/1148)

Not listed on the Explosives Precursors list (EU)

□□ □□□□ □□ (273/2004)

Not listed on the Drug Precursors list (EU)

□□ □□

□□□□□

Ordinance on Flammable Liquids (VbF)	:	Hazard category 3: Flammable (flash point 23 - 60 °C. Excluding gas oils and petroleum).

□□□

Class for fire hazard	:	□□ II-1
Store unit	:	5 liter
□□ □□ □□ □□	:	R10 <H226;H318;H335>; □□□ □□ □□□ □□ □□ □□ □□□ □□□□ □□□
□□□ □□ □□	:	18□ □□ □□□ □□ □□□ □□□□□

□□

Employment restrictions : □□ □□ □□□ (MuSchG)□ □□ □□ □□.
□□ □□□ □□□ (JArbSchG)□ □□ □□ □□.

□□□ : □□□ □□ □ □□.

WGK : WGK 1, □□ □□ □□ □□ (Classification according to AwSV; ID □□ 2809).

□□ □□ □□(12. BImSchV) : Is listed in the Major Accidents Ordinance (12. BImSchV)

□□ □□ □□(12. BImSchV)

□□	□□	□□	□□ □□	□□ □□
1.2.5.1	P5a	Flammable liquids. Flammable liquids of category 1; flammable liquids of category 2 or 3 maintained at a temperature above their boiling point; other liquids with a flash point of ≤ 60 °C maintained at a temperature above their boiling point	10,000 kg	50,000 kg
1.2.5.2	P5b	Flammable liquids. Flammable liquids of category 2 or 3, where special processing conditions such as high pressure or high temperature can lead to the risk of accidents; other liquids with a flash point of ≤ 60 °C, where special processing conditions such as high pressure or high temperature can lead to the risk of accidents	50,000 kg	200,000 kg
1.2.5.3	P5c	Flammable liquids of categories 2 or 3, not covered under P5a and P5b	5,000,000 kg	50,000,000 kg

□□□□

SZW-lijst van kankerverwekkende stoffen : □□□ □□□□ □□□□□.
SZW-lijst van mutagene stoffen : □□□ □□□□ □□□□□.
SZW-lijst van reprotoxische stoffen – Borstvoeding : □□□ □□□□ □□□□□.
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : □□□ □□□□ □□□□□.
SZW-lijst van reprotoxische stoffen – Ontwikkeling : □□□ □□□□ □□□□□.

□□□

□□□ □□ □□ : Act of 25 February 2011 on chemical substances and their mixtures (J. o L. No. 63, item 322 as amended; consolidated text J. o L. 2019, item 1225).
Act of 14 December 2012 on waste (J. o L. 2013, item 322 as amended; consolidated text J. o L. 2020, item 797).
The announcement of Marshal of the Sejm of the Republic of Poland dated 19 October 2016 concerning the consolidated text announcement of the decree on the management of packaging and packaging waste (J. o L. 2016, item 1863 as amended).
Decree of the Minister of Environment of 14 December 2014 on the catalogue of waste (J. o L. 2014, item 1923).
Act of 19 August 2011 on the Carriage of Dangerous Goods (J. o L. 2011 No. 227, item 1367 as amended; consolidated text J. o L. 2020, item 154).
Regulation of the Minister of Family, Labour and Social Policy of 12 June 2018 on the highest permissible concentration and intensity of noxious agents for health at work environment (J. o L. item 1286 as amended).
The announcement of Minister of Health dated 9 September 2016 concerning the consolidated text announcement of the decree of the Minister of Health of 30 December 2004 on health and safety at work related to exposure to chemical agents at work (J. o L. of 16 September 2016, item 1488)
Regulation of the Minister of Health of 2 February 2011 on tests and measurements of the noxious agents for health at work environment (J. o L. No. 33, item 166 as amended).
Regulation of the Minister of Environment of 9 December 2003 on particularly hazardous substances to the environment (J. o L. No. 217, item 2141).
ADR Agreement: Government Statement of 13 March 2023 on the entry into force of amendments to Annexes A and B to the Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), signed in Geneva on 30 September 1957 (J. o. L. 2023, item 891)
Regulation of the Minister of Health of 25 August 2015 on the method of marking places, pipelines, and containers and tanks used for storing or containing hazardous substances or hazardous mixtures (J.o.L. 2015, item 1368 as amended)

□□□

Royal Decree 665/1997 : Is not subject to the Royal Decree 665/1997

15.2. □□ □□ □□□ □□

No chemical safety assessment has been carried out

□□ 16: □ □□ □□□□

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ACGIH	American Conference of Governmental Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	□□ □□ □
BOD	Biochemical oxygen demand (BOD)
CAS □□	□□□□ □□ □□ □□(CAS)
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
COD	□□□ □□ □□□
CSA	□□ □□ □□□ □□
DMEL	Derived Minimal Effect level
DNEL	□□ □□□ □□
EC □□	□□ □□□ □□
EC50	Median effective concentration
ED	□□□ □□□□
EN	□□ □□
EWC	European waste catalogue
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
Log Kow	Partition coefficient n-octanol/water (Log Kow)
Log Pow	Partition coefficient n-octanol/water (Log Pow)
MAK	maximum workplace concentration
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
N.O.S.	Not Otherwise Specified
OECD	Organisation for Economic Co-operation and Development
OEL	□□□ □□ □□
OSHA	Occupational Safety & Health Administration
PBT	Persistent Bioaccumulative Toxic
PNEC	□□ □□□ □□
PPE	□□ □□□

□□ □ □□□□:	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	□□□□□□□□
STP	Sewage treatment plant
TF	□□□ □□
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
TWA	Time Weighted Average
COV	Volatile Organic Compounds
vPvB	Very Persistent and Very Bioaccumulative
UFI	□□ □□ □□□

H-□□ □ EUH-□□ □□:	
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H226	□□□ □□ □ □□.
H318	□□ □□ □□□ □□□.
H335	□□□ □□□ □□□ □ □□.

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