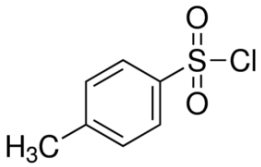
4-TOLUENESULPHONYL CHLORIDE FOR SYNTHESIS

□□□□□□□□

□□ (EU) 2020/878□ □□ □□□ REACH □□ (EC) 1907/2006□ □□
SDS Reference Number: 6340D
□□ □□□□: 2/22/2019 □□ □□□□: 9/1/2026 □□ □□: 2/22/2019 □□: 1.0

□□ 1: □□□□□ □□□ □□ □□

1.1. □□□□

□□ □□	:	□□
□□□	:	4-TOLUENESULPHONYL CHLORIDE FOR SYNTHESIS
IUPAC □□	:	4-Methylbenzene-1-sulphonyl chloride
EC □□	:	202-684-8
CAS □□	:	98-59-9
□□ □□	:	6340D
□□ □□	:	Organic compound
□□□	:	C7H7ClO2S
□□ □□	:	
□□□	:	Tosyl chloride, p-Toluenesulphonyl chloride, p-TsCl, TsCl

1.2. □□□□ □□ □□□□ □□ □□ □□ □□

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□□/□□□ □□ □□	:	Industrial For professional use only
□□□□/□□□□ □□	:	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]□ □□ □□

□□ □□□, □□ 1	H290
□□ □□□/□□ □□□, □□ 2	H315
□□ □ □□□/□ □□□, □□ 1	H318
□□ □□□, □□ 1	H317

H-□□ □ EUH-□□ □□: □□ 16 □□

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2.2. □□□□□□□ □□□ □□□□ □□

□□ (EC) No. 1272/2008□ □□ □□ □□[CLP]

□□ □□ □□□□(CLP) :



GHS05 GHS07

□□□ (CLP) : □□

□□·□□ □□ (CLP) : H290 - □□□ □□□□ □ □□.
H315 - □□□ □□□ □□□.
H317 - □□□□□ □□ □□□ □□□ □ □□.
H318 - □□ □□ □□□ □□□.

□□ □□ □□(CLP) : P234 - □□□ □□□□ □□□□□.
P261 - □□·□·□□·□□□·□□·□□□□ □ □□□ □□□□.
P280 - respiratory protection, □□□□, □□□, □□□, □□□□□ □(□) □□□□□.
P302+P352 - □□□ □□□ □□□ □ □ □□□□.
P305+P351+P338 - □□ □□□□: □ □□ □□ □□□□ □□□□. □□□□ □□□ □□□ □□□□□. □□ □ □□□.

2.3. □□ □□

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□□ 3: □□□□□ □□ □ □□□

3.1. □□□□

□□ □□ : □□□□□□

□□	□□□□	%
4-TOLUENESULPHONYL CHLORIDE	CAS □□: 98-59-9 EC □□: 202-684-8	100

□□ 4: □□□□□□

4.1. □□□□ □□

□□ □□ □□ : If you feel unwell, seek medical advice.

□□□□ □ : □□□ □□□ □□ □□□ □□□ □□□□ □□ □□□ □□□ □□□□. Give oxygen or artificial respiration if necessary.

□□□ □□□□ □ : Wash skin with plenty of water. □□ □□□ □□□□: □□□□ □□/□□□ □□□□. □□□ □□□ □□□□ .

□□ □□□□ □ : □□□□ □□□□□□ □□□□□. □□ □□□□. □ □□ □□ □□□□ □□□□. Call a physician immediately.

□□□ □ : Rinse mouth out with water. If you feel unwell, seek medical advice. □□□□ □□□ □□□□(□□)□ □□□ □□□□.

Self protection of the first-aider : □□□□□□ □□□ □□□ □□□□, □□□□ □□□□□□ □□□□□□□□(□□ 8 □□).

4.2. □□ □ □□□ □□ □□□ □□ □ □□

□□ □ □□/□□ : None under normal conditions. Dust of the product, if present, may cause respiratory irritation after excessive inhalation exposure.

□□ □□ □ □□/□□ : □□□ □□□ □□□. □□.

□ □□ □ □□/□□ : □□ □□ □□□ □□□. Serious damage to eyes.

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

4.3. □□□□ □□ □ □□ □□ □□ □□ □□

Treat symptomatically.

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

섹션 5: 폭발·화재시 대처방법

5.1. 적절한 소화제

적절한 소화제 : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2). Water spray. Dry powder. Foam.

부적절한 소화제 : Do not use a heavy water stream.

5.2. 화학물질로부터 생기는 특정 유해성

화재 위험 : No fire hazard.
폭발 위험 : No direct explosion hazard.
화재 시 위험한 분해성 물질 : Toxic fumes may be released.

5.3. 소방관의 화재진압 시 주의사항

소방 지침 : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.
화재 진압 중 보호 : Do not attempt to take action without suitable protective equipment. 자급식 호흡보호구. Complete protective clothing.

섹션 6: 누출사고시 대처방법

6.1. 인체를 보호하기 위해 필요한 조치사항 및 보호구

일반 조치 : 제품이 하수구 또는 상하수도로 들어갈 경우 당국에 통보. 물질손상을 방지하기 위해 누출물을 흡수시키시오.

비응급 대응 요원

보호 장비 : Wear recommended personal protective equipment.
응급 조치 : Ventilate spillage area. Avoid contact with skin, eyes and clothing.

응급 대응 요원

보호 장비 : Do not attempt to take action without suitable protective equipment. 적절한 개인 보호구를 착용하시오. 보 다 자세한 정보는 섹션 8: "노출방지 및 개인보호구"를 참조하시오.

응급 조치 : Evacuate unnecessary personnel.

6.2. 환경을 보호하기 위해 필요한 조치사항

환경으로 배출하지 마시오.

6.3. 정화 또는 제거 방법

봉쇄용 : Using a clean shovel, put the material in a dry container and cover without compressing it. 세척 방법 : Mechanically recover the product. Clean contaminated surfaces with an excess of water. 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. 피부 및 눈과의 접촉을 피하시오. 개인 보호구를 착용하시오. 위생 조치 : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. 다시 사용 전 오염된 의류를 세척하시오. 이 제품을 사용할 때에는 먹거나, 마시거나 흡연
하지 마시오. Always wash hands after handling the product.

7.2. 피해야할 조건을 포함한 안전한 저장 방법

기술적 조치 : Keep in a cool, well-ventilated place away from heat.
보관 조건 : 환기가 잘 되는 곳에 보관하시오. 용기를 단단히 밀폐하시오.
보관 온도 : 15 – 25 °C

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

7.3. □□ □□ □□

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8.1. □□ □□ □□

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8.2. □□□□

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□□□ □□□ □□:

Ensure good ventilation of the work station.

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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: □□□□□ □□

9.1. □□□□ □□□□□ □□□ □□ □□

□□□ □□	:	□□
□□	:	White to grey.
□□	:	Crystalline powder.
□□□	:	190.65 g/mol
□□	:	characteristic odour.
□□ □□	:	□□□□
□□□	:	66 – 70 °C
□□□	:	□□□□
□□ □□□□ □□□ □□	:	134 °C at 10 mmHg
□□□	:	□□□
□□ □□□	:	□□□□
□□ □□□	:	□□□□

□□□	:	128 °C
□□□□ □□	:	492 °C
□□ □□	:	□□□□
pH	:	Strongly acid
pH □□	:	□□□□
□□(□□□)	:	□□□□
□□□	:	□: Reacts with water □□□: Very soluble □□□: Very soluble
Partition coefficient n-octanol/water (Log Kow)	:	□□□□
□□□	:	0.16 Pa at 25 °C
50°C□□□ □□□	:	□□□□
□□	:	1.49 g/cm³ at 20 °C
□□	:	□□□□
20°C□□□ □□ □□ □□	:	6.6 (Air = 1)
Particle size	:	□□□□

9.2. □ □□ □□□□

□□ □□

□□ 10: □□□ □ □□□

10.1. □□□

The product is non-reactive under normal conditions of use, storage and transport.

10.2. □□□ □□□

Stable under normal conditions.

10.3. □□ □□□ □□□

No dangerous reactions known under normal conditions of use.

10.4. □□□ □ □□

Air contact. □□□□. □. Moisture.

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: Strongly acid
□□ □ □□ □□ □□□	:	□□ □□ □□□ □□□. pH: Strongly acid
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□□ □□□□ □□ (□□ □□)	:	□□□□ □□

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4-TOLUENESULPHONYL CHLORIDE FOR SYNTHESIS (98-59-9)	
□□(□□□)	□□□□

11.2. □□ □□ □□

□□ □□

□□ 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. □□□ □ □□□

4-TOLUENESULPHONYL CHLORIDE FOR SYNTHESIS (98-59-9)	
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12.3. □□ □□□

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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.

□□/□□ □□ □□□□ : Comply with applicable regulations for solid waste disposal. 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 3261
UN-□□ (IMDG)	:	UN 3261
UN-□□ (IATA)	:	UN 3261
UN-□□ (ADN)	:	UN 3261
UN-□□ (RID)	:	UN 3261

14.2. UN □□ □□□

□□ □□□ (ADR)	:	□□□ □□, □□, □□□, □□ □□□ □□□ □□ □
□□ □□□ (IMDG)	:	CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.
□□ □□□ (IATA)	:	Corrosive solid, acidic, organic, n.o.s.
□□ □□□ (ADN)	:	□□□ □□, □□, □□□, □□ □□□ □□□ □□ □
□□ □□□ (RID)	:	□□□ □□, □□, □□□, □□ □□□ □□□ □□ □
□□ □□ □□ (ADR) (ADR)	:	UN 3261 □□□ □□, □□, □□□, □□ □□□ □□□ □□ □ 4-TOLUENESULPHONYL CHLORIDE, 8, II, (E)
Transport document description (IMDG)	:	UN 3261 CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. 4-TOLUENESULPHONYL CHLORIDE, 8, II
Transport document description (IATA)	:	UN 3261 Corrosive solid, acidic, organic, n.o.s. 4-TOLUENESULPHONYL CHLORIDE, 8, II
Transport document description (ADN)	:	UN 3261 □□□ □□, □□, □□□, □□ □□□ □□□ □□ □, 8, II
Transport document description (RID)	:	UN 3261 □□□ □□, □□, □□□, □□ □□□ □□□ □□ □, 8, II

14.3. □□□□□ □□□ □□

ADR

□□□□□ □□□ □□ (ADR)	:	8
□□ □□ (ADR)	:	8
	:	

IMDG

□□□□□ □□□ □□ (IMDG)	:	8
□□ □□ (IMDG)	:	8
	:	

IATA

□□□□□ □□□ □□ (IATA)	:	8
□□ □□ (IATA)	:	8
	:	

ADN

□□□□□ □□□ □□ (ADN)	:	8
□□ □□ (ADN)	:	8
	:	

RID

□□□□□ □□□ □□ (RID)	:	8
□□ □□ (RID)	:	8

: 

14.4. □□□□

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

14.5. □□ □□□

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□□□□□□	:	□□□
EmS-No. (□□)	:	F-A
EmS-No. (□□)	:	S-B
□ □□ □□□□	:	□□ □□ □□ □□

14.6. □□□□ □□ □□ □□□□

□□ □□

□□ □□ (ADR)	:	C4
□□ □□(ADR)	:	274
□□□(ADR)	:	1kg
□□□(ADR)	:	E2
□□ □□(ADR)	:	P002, IBC08
□□ □□ (ADR)	:	B4
□□ □□ □□ □□ □□(ADR)	:	MP10
□□□ □□ □ □□ □□□□ □□ (ADR)	:	T3
□□□ □□ □ □□ □□□□ □□ □□ (ADR)	:	TP33
□□ □□(ADR)	:	SGAN, L4BN
□□ □□□ □□	:	AT
□□ □□(ADR)	:	2
□□ □□ □□ □□ - □□(ADR)	:	V11
□□ □□ □□(Kemler □□)	:	80
Orange plates (□□□□□□)	:	80 3261
□□ □□ □□ (ADR)	:	E
EAC □□	:	2X

□□ □□

□□ □□ (IMDG)	:	274
□□ □□(IMDG)	:	1 kg
□□□(IMDG)	:	E2
□□ □□ (IMDG)	:	P002
IBC □□ □□(IMDG)	:	IBC08
IBC □□ □□ (IMDG)	:	B21, B4
□□ □□ (IMDG)	:	T3
□□ □□ □□ (IMDG)	:	TP33
□□ □□ (IMDG)	:	B
□□(IMDG)	:	SGG1, SG36, SG49
□□□ □□□□ (IMDG)	:	Causes burns to skin, eyes and mucous membranes.
MFAG-□□	:	154

□□ □□

PCA □□ □□(IATA)	:	E2
PCA □□ □□(IATA)	:	Y844
PCA □□ □□ □□ □□□(IATA)	:	5kg

PCA □□ □□(IATA)	:	859
PCA □□ □□□(IATA)	:	15kg
CAO □□ □□(IATA)	:	863
CAO □□ □□□(IATA)	:	50kg
□□ □□(IATA)	:	A3, A803
ERG □□(IATA)	:	8L

□□ □□ □□

□□ □□(ADN)	:	C4
□□ □□(ADN)	:	274
□□□(ADN)	:	1 kg
□□□(ADN)	:	E2
□□ □□(ADN)	:	PP, EP
□□ □□/□□□ □□(ADN)	:	0

□□ □□

□□ □□(RID)	:	C4
□□ □□(RID)	:	274
□□ □□(RID)	:	1kg
□□□(RID)	:	E2
□□ □□ (RID)	:	P002, IBC08
□□ □□ (RID)	:	B4
□□ □□ □□ □□ □□(RID)	:	MP10
□□□ □□ □ □□ □□□□ □□ (RID)	:	T3
□□□ □□ □ □□ □□□□ □□ □□ (RID)	:	TP33
RID □□□ □□ □□(RID)	:	SGAN, L4BN
□□ □□(RID)	:	2
□□ □□ □□ □□ - □□(RID)	:	W11
□□ □□□	:	CE10
□□□ □□ □□ (RID)	:	80

14.7. □□□□□□(IMO)□ □□ □□ □□ □□

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□□ 15: □□ □□□□

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

EU □□

REACH □□□ XVII (□□ □□)

REACH □□□ XVII□ □□□□ □□

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)

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□□□ □□ □□ : 18□ □□ □□□ □□ □□□ □□□□□

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WGK : WGK 1, □□ □□ □□ □□ (Classification according to AwSV; ID □□ 7106).

□□□□

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)

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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H290	□□□ □□□□ □ □□.
H315	□□□ □□□ □□□.
H317	□□□□□ □□ □□□ □□□ □ □□.
H318	□□ □□ □□□ □□□.

□□□□□□□□(SDS), EU

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