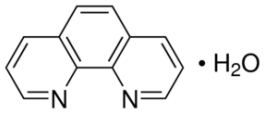
1,10 PHENANTHROLINE MONOHYDRATE AR/ACS

□□□□□□□□

□□ (EU) 2020/878□ □□ □□□ REACH □□ (EC) 1907/2006□ □□
SDS Reference Number: 05160
□□ □□□□: 2/12/2019 □□ □□□□: 5/30/2025 □□ □□: 2/12/2019 □□: 1.0

□□ 1: □□□□□ □□□ □□ □□

1.1. □□□□

□□ □□	:	□□
□□□	:	1,10 PHENANTHROLINE MONOHYDRATE AR/ACS
EC □□ □□	:	613-092-00-8
EC □□	:	200-629-2
CAS □□	:	5144-89-8
□□ □□	:	05160
□□ □□	:	Heterocyclic organic compound
□□□	:	C12H8N2 · H2O
□□ □□	:	
□□□	:	o-Phenanthroline Monohydrate

1.2. □□□□ □□ □□□□ □□ □□ □□ □□

□□ □□ □□

□□/□□□ □□ □□	:	Industrial For professional use only
□□□□/□□□□ □□	:	□□□ □□ Laboratory chemicals

1.3. □□□□□□□□ □□□ □□

LOBA CHEMIE PVT.LTD.
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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	H301
□□□□ □□□ – □□, □□ 1	H410

□□(H) □□ □ EUH □□ □□: 16□ □□.

□□□□□, □□ □□ □ □□□□□□□□

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2.2. □□□□□□□ □□□ □□□□ □□

□□ (EC) No. 1272/2008□ □□ □□ □□[CLP]

□□ □□ □□□□(CLP) :



GHS06 GHS09

□□□ (CLP) : □□

□□·□□ □□ (CLP) : H301 - □□□ □□□.
H410 - □□□ □□□ □□ □□□□□□ □□ □□□.

□□ □□ □□(CLP) : P273 - □□□□ □□□□ □□□.
P301+P310 - □□□□ □□ □□ □□ □□ □□ □□ □(□) □□□□.
P501 - □□□·□□ □(□) □□, □□, □□ □/□□ □□ □□□ □□ □□□□ □□ □□ □□□ □□ □□ □ □□ □□□.

2.3. □□ □□

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

□□ 3: □□□□□ □□ □ □□□

3.1. □□□□

□□ □□ : □□□□□□

□□	□□□□	%
1,10 PHENANTHROLINE MONOHYDRATE	CAS □□: 5144-89-8 EC □□: 200-629-2 EC □□ □□: 613-092-00-8	100

□□ 4: □□□□□□

4.1. □□□□ □□

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

□□□□ □ : □□□ □□□ □□ □□□ □□□ □□□□ □□ □□□ □□□ □□□□. Give oxygen or artificial respiration if necessary. If you feel unwell, seek medical advice.

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

□□ □□□□ □ : □□□□ □□□□□□ □□□□□. □□ □□□□. □ □□ □□ □□□□ □□□□. □□ □□□ □□□□: □□□ □ □□/□□□ □□□□.

□□□ □ : □□ □□□□□. Obtain emergency medical attention. □□ □□□□/□□□ □□□ □□□□. □□ □□□ □ □□. Call a physician immediately.

First-aid measures for first aider : □□□□ □□□□ □□□ □□ □□ □□□ □□□□ □□□.

4.2. □□ □ □□□ □□ □□□ □□ □ □□

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

□□ □□ □ □□/□□ : None under normal conditions. Dust may cause irritation in skin folds or by contact in combination with tight clothing.

□ □□ □ □□/□□ : None under normal conditions. Dust from this product may cause eye irritation.

□□ □ □□/□□ : □□□ □□□.

4.3. □□□□ □□ □ □□ □□ □□ □□ □□

Treat symptomatically.

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5.1. □□□ □□□

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

□□□□ □□□ : Do not use a heavy water stream.

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

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. Evacuate unnecessary personnel.

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 : Stop release. Evacuate unnecessary personnel.

6.2. 환경을 보호하기 위해 필요한 조치사항

환경으로 배출하지 마시오. 장기적인 영향에 의해 수생생물에게 매우 유독함.

6.3. 정화 또는 제거 방법

봉쇄용 : 누출물을 모으시오.

세척 방법 : Mechanically recover the product. Clear up rapidly by scoop or vacuum. 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. 개인 보호구를 착용하시오.
위생 조치 : 이 제품을 사용할 때에는 먹거나, 마시거나 흡연하지 마시오. 취급 후에는 취급 부위 를(을) 철저히 씻으시오. 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 : Store in original container. 용기를 단단히 밀폐하시오. 건조한 장소에 보관하시오. 잠금장치를 하여 저장하시오. 포장재 : Store always product in container of same material as original container.

7.3. 특정 최종 사용

자료 없음

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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.
□□	:	Crystalline powder or crystals.
□□□	:	198.23 g/mol
□□	:	Odourless.
□□ □□	:	□□□□
□□□	:	97 – 102 °C
□□□	:	□□□□
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□□ □□	:	□□□□
pH	:	≈ 4 (50 g/L at 20 °C)
pH □□	:	□□□□
□□(□□□)	:	□□□□

□□□	:	□: Soluble in water
Partition coefficient n-octanol/water (Log Kow)	:	□□□□
□□□	:	□□□□
50°C□□□ □□□	:	□□□□
□□	:	1.31 g/cm³
□□	:	□□□□
20°C□□□ □□ □□ □□	:	6.2
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. □□□ □ □□

□□□□. Moisture. Air contact.

10.5. □□□ □ □□

□□ □□

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 (50 g/L at 20 °C)

1,10 PHENANTHROLINE MONOHYDRATE (5144-89-8)	
pH	≈ 4 (50 g/L at 20 °C)

□□ □ □□ □□ □□□	:	□□□□ □□

pH: ≈ 4 (50 g/L at 20 °C)

1,10 PHENANTHROLINE MONOHYDRATE (5144-89-8)	
pH	≈ 4 (50 g/L at 20 °C)

□□□ □□ □□ □□□	:	□□□□ □□
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1,10 PHENANTHROLINE MONOHYDRATE AR/ACS (5144-89-8)	
□□(□□□)	□□□□

1,10 PHENANTHROLINE MONOHYDRATE (5144-89-8)	
□□(□□□)	□□□□

11.2. □□ □□ □□

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12.1. □□

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12.2. □□□ □ □□□

1,10 PHENANTHROLINE MONOHYDRATE AR/ACS (5144-89-8)	
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1,10 PHENANTHROLINE MONOHYDRATE (5144-89-8)	
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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.

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

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

Ecological waste information : Hazardous waste due to toxicity.

□□ 14: □□□ □□□ □□

ADR / IMDG / IATA / ADN / RID□ □□

14.1. UN □□ □□ ID □□

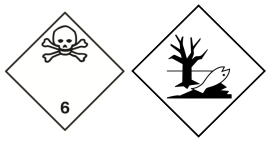
UN-□□ (ADR)	:	UN 2811
UN-□□ (IMDG)	:	UN 2811
UN-□□ (IATA)	:	UN 2811
UN-□□ (ADN)	:	UN 2811
UN-□□ (RID)	:	UN 2811

14.2. UN □□ □□□

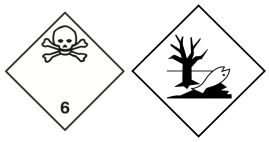
□□ □□□ (ADR)	:	□□ □□, □□□, □□ □□□ □□□ □□ □
□□ □□□ (IMDG)	:	TOXIC SOLID, ORGANIC, N.O.S.
□□ □□□ (IATA)	:	Toxic solid, organic, n.o.s.
□□ □□□ (ADN)	:	□□ □□, □□□, □□ □□□ □□□ □□ □
□□ □□□ (RID)	:	□□ □□, □□□, □□ □□□ □□□ □□ □
□□ □□ □□ (ADR) (ADR)	:	UN 2811 □□ □□, □□□, □□ □□□ □□□ □□ □ (1,10-PHENANTHROLINE MONOHYDRATE), 6.1, III, (E), □□□ □□
□□ □□ □□ (IMDG)	:	UN 2811 TOXIC SOLID, ORGANIC, N.O.S., 6.1, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
□□ □□ □□ (IATA)	:	UN 2811 Toxic solid, organic, n.o.s. (1,10-PHENANTHROLINE MONOHYDRATE), 6.1, III, ENVIRONMENTALLY HAZARDOUS
□□ □□ □□ (ADN)	:	UN 2811 □□ □□, □□□, □□ □□□ □□□ □□ □, 6.1, III, □□□ □□
□□ □□ □□ (RID)	:	UN 2811 □□ □□, □□□, □□ □□□ □□□ □□ □, 6.1, III, □□□ □□

14.3. □□□□□ □□□ □□

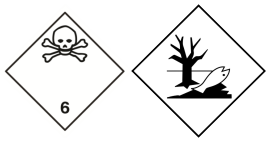
ADR

□□□□□ □□□ □□ (ADR)	:	6.1
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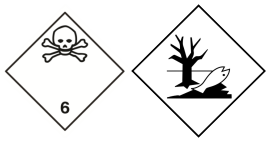
IMDG

□□□□□ □□□ □□ (IMDG)	:	6.1
□□ □□ (IMDG)	:	6.1
	:	

IATA

□□□□□ □□□ □□ (IATA)	:	6.1
□□ □□ (IATA)	:	6.1
	:	

ADN

□□□□□ □□□ □□ (ADN)	:	6.1
□□ □□ (ADN)	:	6.1
	:	

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

RID

운송에서의 위험성 등급 (RID) : 6.1 위험 라벨 (RID) : 6.1



:

14.4. 용기등급

용기 등급 (ADR) : III 용기 등급(IMDG) : III 용기 등급 (IATA) : III 포장 그룹(ADN) : III 용기 등급(RID) : III

14.5. 환경 유해성

환경에 위험 : 해당
해양오염물질 : 해당

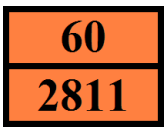
EmS-No. (화재) : F-A
EmS-No. (유출) : S-A
그 밖의 참고사항 : 가용 추가 정보 없음

14.6. 사용자를 위한 특별 주의사항

내륙 수송

분류 코드 (ADR) : T2
특별 규정(ADR) : 274, 614
일정량(ADR) : 5kg
극소량(ADR) : E1
포장 지침(ADR) : P002, IBC08, LP02, R001 포장 규정 (ADR) : B3
공동 포장 관련 특별 규정(ADR) : MP10
휴대용 탱크 및 산적 컨테이너 지침 (ADR) : T1
휴대용 탱크 및 산적 컨테이너 특별 조항 (ADR) : TP33
탱크 코드(ADR) : SGAH, L4BH
탱크 특별 조항(ADR) : TU15, TE19 탱크 운반용 차량 : AT

운송 범주(ADR) : 2
운송 관련 특별 조항 - 일괄 운송(ADR) : VC1, VC2, AP7 운송 관련 특별 조항 -상차, 하차 및 취급(ADR) : CV13, CV28 운송 관련 특별 조항 - 운영(ADR) : S9
위험 식별 번호(Kemler 번호) : 60
Orange plates (운반차량표시) :



터널 제한 코드 (ADR) : E
EAC 코드 : 2X

해상 운송

특별 규정 (IMDG) : 223, 274 한정 수량(IMDG) : 5 kg 극소량(IMDG) : E1
포장 지침 (IMDG) : P002
IBC 포장 지침(IMDG) : IBC08
IBC 포장 규정 (IMDG) : B3
탱크 지침 (IMDG) : T1
탱크 특별 지침 (IMDG) : TP33
적재 범주 (IMDG) : A
특성과 준수사항 (IMDG) : Toxic if swallowed, by skin contact or by inhalation. MFAG-번호 : 154

□□ □□

PCA □□ □□(IATA)	:	E1
PCA □□ □□(IATA)	:	Y645
PCA □□ □□ □□ □□□(IATA)	:	10kg
PCA □□ □□(IATA)	:	670
PCA □□ □□□(IATA)	:	100kg
CAO □□ □□(IATA)	:	677
CAO □□ □□□(IATA)	:	200kg
□□ □□(IATA)	:	A3, A5
ERG □□(IATA)	:	6L

□□ □□ □□

□□ □□(ADN)	:	T2
□□ □□(ADN)	:	274, 614, 802
□□□(ADN)	:	5 kg
□□□(ADN)	:	E1
□□□□(ADN)	:	T
□□ □□(ADN)	:	PP, EP
□□ □□/□□□ □□(ADN)	:	0

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□□ □□(RID)	:	T2
□□ □□(RID)	:	274, 614
□□ □□(RID)	:	5kg
□□□(RID)	:	E1
□□ □□ (RID)	:	P002, IBC08, LP02, R001
□□ □□ (RID)	:	B3
□□ □□ □□ □□ □□(RID)	:	MP10
□□□ □□ □ □□ □□□□ □□ (RID)	:	T1
□□□ □□ □ □□ □□□□ □□ □□ (RID)	:	TP33
RID □□□ □□ □□(RID)	:	SGAH, L4BH
RID □□□ □□ □□(RID)	:	TU15
□□ □□(RID)	:	2
□□ □□ □□ □□ - □□ □□(RID)	:	VC1, VC2, AP7
□□ □□ □□ □□ -□□, □□ □ □□(RID)	:	CW13, CW28, CW31
□□ □□□	:	CE11
□□□ □□ □□ (RID)	:	60

14.7. □□□□□□(IMO)□ □□ □□ □□ □□

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□□ 15: □□ □□□□

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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)

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

□□ □□□□ □□ (2019/1148)

□□□ □□□□ □□(□□ □□□□□ □□ □ □□□ □□ □□ EU 2019/1148)□ □□□ □□ □□□□ □□

□□ □□□□ □□ (273/2004)

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WGK	:	WGK 3, □□ □□ □□□ (Classification according to AwSV).
□□□□ □□ □□ (ChemVerbotsV)	:	This product is subject to ChemVerbotsV Annex 2 Entry 1. The following requirements must be observed: authorization requirement (according to § 6 paragraph 1 sentence 1), basic requirements for carrying out the delivery (according to § 8 paragraph 1, 3 and 4), identification and documentation (according to § 9 paragraph 1 to 3) and exclusion of the shipping route (according to § 10).
□□ □□ □□(12. BImSchV)	:	□□ □□ □□(12. BImSchV)□ □□ □□ □□

□□□□

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	:	□□□ □□□□ □□□□□.

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□□□ □□ □□	:	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)

15.2. □□ □□ □□□ □□

No chemical safety assessment has been carried out

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ACGIH	American Conference of Government 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	□□ □□□

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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□ □□:	
□□ □□ 3 (□□)	□□ □□ (□□), □□ 3
□□ □□□□ 1	□□□□ □□□ – □□, □□ 1
H301	□□□ □□□.
H410	□□□ □□□ □□ □□□□□□ □□ □□□.

□□□□□□□□(SDS), EU

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