

MANGANESE (II) CHLORIDE TETRAHYDRATE, 99% (metals basis)

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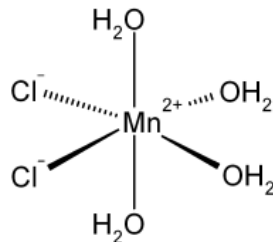
□ □ (EU) 2020/878 □ □ □ □ REACH □ □ (EC) 1907/2006 □ □ □
□ □ □ □ □ □ : 6/5/2026 □ □ : 1.0

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1.1. □ □ □ □

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EC □ □
CAS □ □
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: MANGANESE (II) CHLORIDE TETRAHYDRATE, 99% (metals basis)
: 231-869-6
: 13446-34-9
: 4504C
: Inorganic compound
: MnCl₂·4H₂O
:



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: Manganese dichloride Tetrahydrate, Manganese chloride Tetrahydrate, Manganous chloride Tetrahydrate

1.2. □ □ □ □ □ □ □ □ □ □ □ □ □ □

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: Laboratory chemicals
□ □ □ □ □ □

1.3. □ □ □ □ □ □ □ □ □ □ □ □

LOBA CHEMIE PVT.LTD.
107 Wode House Road, Jehangir Villa, Colaba
400005 Mumbai
INDIA
T +91 22 6663 6663, F +91 22 6663 6699
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] □ □ □ □

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H-□ □ □ □ EUH-□ □ □ □: □ □ 16 □ □

H301
H318
H373

□ □ □ □ □ □, □ □ □ □ □ □ □ □ □ □ □ □

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

□□ (EU) 2020/878 □ □ □ □ □ □ REACH □□ (EC) 1907/2006 □ □ □

□□ □□ □□□□(CLP)



□□□ (CLP)

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□□ □□ □□(CLP)

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: H301 - □□□ □□□.

H318 - □□ □□ □□□ □□□.

H373 - □□□ □□ □□ □□□□ □□□ □□□ □□□ □□□.

: P260 - □□·□·□□·□□□·□□·□□□□ □(□) □□□□ □□□.

P264 - □□ □□□ hands and forearms □(□) □□□ □□□□.

P280 - □□□□, respiratory protection, □□□, □□□, □□□□□ □(□) □□□□□.

P301+P310 - □□□□ □□ □□ □□ □□ □□ □□ □(□) □□□□.

P305+P351+P338 - □□ □□□□: □ □□ □□ □□□□ □□□□. □□□□ □□□ □□□ □□□□□. □□ □
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P314 - □□□□ □□□□ □□□□ □□·□□□□ □□□□.

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3.1. □ □ □ □

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MANGANESE (II) CHLORIDE TETRAHYDRATE	CAS □□: 13446-34-9 EC □□: 231-869-6	100

4.1. □ □ □ □ □ □

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5 of 5

100 101 102 103 104

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Self protection of the first-aider

: If you feel unwell, seek medical advice.

[illegible]

: Wash skin with plenty of water.

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

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

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

□ □ □ □ / □ □

: None under normal conditions.

Treat symptomatically.

MANGANESE (II) CHLORIDE TETRAHYDRATE, 99% (metals basis)

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□□ (EU) 2020/878 □□ □□ □□ REACH □□ (EC) 1907/2006 □□ □□

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5.1. □□□ □□□

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

5.2. □□□□□□□ □□□ □□ □□□□

- □□ : No fire hazard.
- □□ : 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.

□□ 6: □□□□□ □□□□

6.1. □□□ □□□□ □□ □□□ □□□□ □ □□□□

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- □□ □□ : Wear recommended personal protective equipment.
- □□ : Ventilate spillage area.
- □□ □□ : Do not attempt to take action without suitable protective equipment. □□ □□□ □□□ □□ 8: "□□□□ □ □□□□□"□ □□□□□.
- □□ : Evacuate unnecessary personnel.

6.2. □□□ □□□□ □□ □□□ □□□□

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6.3. □□ □□ □□ □□

- : Using a clean shovel, put the material in a dry container and cover without compressing it.
- □□ : Mechanically recover the product.
- □□ □□□□ : Dispose of materials or solid residues at an authorized site.

6.4. □□ □□ □□

For further information refer to section 13.

□□ 7: □□ □ □□□□

7.1. □□□□□□

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- : Ensure good ventilation of the work station. □□ □□□□ □□□□□.
- □□ : □ □□□ □□□ □□□ □□□, □□□□ □□□□ □□□. Always wash hands after handling the product.

7.2. □□□□ □□□ □□□ □□□ □□ □□

- □□ : Keep in a cool, well-ventilated place away from heat.
- □□ : □□□□ □□□□ □□□□□ □□□□.
- : Always store product in container of same material as original container.
- :
- □□(LK) : LK 6.1 - □□ □□

MANGANESE (II) CHLORIDE TETRAHYDRATE, 99% (metals basis)

(EU) 2020/878 REACH (EC) 1907/2006

7.3.

8:

8.1.

8.2.

Ensure good ventilation of the work station.

Wear recommended personal protective equipment.



Chemical goggles or safety glasses

Skin protection

Wear a mask

Protective gloves

Wear appropriate mask

9:

9.1.

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: pink to pale pink.

: Crystalline powder or crystals.

: 197.9 g/mol

: Odourless.

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: 58 °C

:

: 198 °C

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MANGANESE (II) CHLORIDE TETRAHYDRATE, 99% (metals basis)

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□□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□

□□ □□	: > 106 °C
pH	: 4 – 6 at 25°C
pH □□□ □□	: 50 g/l
□□(□□□)	: □□□□
□□□	: □: 1980 g/l at 20°C - Completely soluble
Partition coefficient n-octanol/water (Log Kow)	: □□□□
□□□	: □□□□
50°C□□□ □□□	: □□□□
□□	: 2.01 g/cm³ at 20°C
□□	: □□□□
20°C□□□ □□ □□ □□	: □□□□
Particle size	: □□□□

9.2. □□□ □□□□□

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□□ □□ : ≈ 800 kg/m³

□□ 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. □□□ □□ □□

None under recommended storage and handling conditions (see section 7).

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 – 6 at 25°C
□□ □ □□ □□ □□□	: □□ □□ □□□ □□□.
	pH: 4 – 6 at 25°C
□□□ □□ □□ □□□	: □□□□ □□
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MANGANESE (II) CHLORIDE TETRAHYDRATE, 99% (metals basis)

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□□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□

MANGANESE (II) CHLORIDE TETRAHYDRATE, 99% (metals basis) (13446-34-9)	
□□(□□□)	□□□□

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. □□□ □□□□

MANGANESE (II) CHLORIDE TETRAHYDRATE, 99% (metals basis) (13446-34-9)	
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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 3288

MANGANESE (II) CHLORIDE TETRAHYDRATE, 99% (metals basis)

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□□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□

UN-□□ (IMDG)	: UN 3288
UN-□□ (IATA)	: UN 3288
UN-□□ (ADN)	: UN 3288
UN-□□ (RID)	: UN 3288

14.2. UN □□ □□□

□□ □□□ (ADR)	: □□ □□, □□□, □□ □□□ □□□ □□ □
□□ □□□ (IMDG)	: TOXIC SOLID, INORGANIC, N.O.S.
□□ □□□ (IATA)	: Toxic solid, inorganic, n.o.s.
□□ □□□ (ADN)	: □□ □□, □□□, □□ □□□ □□□ □□ □
□□ □□□ (RID)	: □□ □□, □□□, □□ □□□ □□□ □□ □
□□ □□ □□ (ADR) (ADR)	: UN 3288 □□ □□, □□□, □□ □□□ □□□ □□ □ MANGANESE (II) CHLORIDE TETRAHYDRATE, 6.1, III, (E)
Transport document description (IMDG)	: UN 3288 TOXIC SOLID, INORGANIC, N.O.S. MANGANESE (II) CHLORIDE TETRAHYDRATE, 6.1, III
Transport document description (IATA)	: UN 3288 Toxic solid, inorganic, n.o.s. MANGANESE (II) CHLORIDE TETRAHYDRATE, 6.1, III
Transport document description (ADN)	: UN 3288 □□ □□, □□□, □□ □□□ □□□ □□ □, 6.1, III
Transport document description (RID)	: UN 3288 □□ □□, □□□, □□ □□□ □□□ □□ □, 6.1, III

14.3. □□□□□ □□□ □□

ADR

□□□□□ □□□ □□ (ADR)	: 6.1
□□ □□ (ADR)	: 6.1
:	:
	

IMDG

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

IATA

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

ADN

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

RID

□□□□□ □□□ □□ (RID)	: 6.1
□□ □□ (RID)	: 6.1

MANGANESE (II) CHLORIDE TETRAHYDRATE, 99% (metals basis)

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□□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□



14.4. □□□□

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

14.5. □□ □□□

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□□□□□□	: □□□
EmS-No. (□□)	: F-A
EmS-No. (□□)	: S-A
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14.6. □□□□ □□ □□ □□□□

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□□ □□ (ADR)	: T5
□□ □□(ADR)	: 274
□□□(ADR)	: 5kg
□□□(ADR)	: E1
□□ □□(ADR)	: P002, IBC08, LP02, R001
□□ □□ (ADR)	: B3
□□ □□ □□ □□ □□(ADR)	: MP10
□□□ □□ □ □□ □□□□ □□ (ADR)	: T1
□□□ □□ □ □□ □□□□ □□ □□ (ADR)	: TP33
□□ □□(ADR)	: SGAH, L4BH
□□ □□ □□(ADR)	: TU15, TE19
□□ □□□□ □□	: AT
□□ □□(ADR)	: 2
□□ □□ □□ □□ - □□ □□(ADR)	: VC1, VC2, AP7
□□ □□ □□ □□ -□□, □□ □ □□□(ADR)	: CV13, CV28
□□ □□ □□ □□ - □□□(ADR)	: S9
□□ □□ □□(Kemler □□)	: 60
Orange plates (□□□□□□□)	:



□□ □□ □□ (ADR)	: E
EAC □□	: 2X

□□ □□

□□ □□ (IMDG)	: 223, 274
□□ □□(IMDG)	: 5 kg
□□□(IMDG)	: E1
□□ □□ (IMDG)	: P002, LP02
IBC □□ □□(IMDG)	: IBC08
IBC □□ □□ (IMDG)	: B3
□□ □□ (IMDG)	: T1
□□ □□ □□ (IMDG)	: TP33
□□ □□ (IMDG)	: A
□□□ □□□□ (IMDG)	: Toxic if swallowed, by skin contact or by inhalation.

□□ □□

PCA □□ □□(IATA)	: E1
PCA □□ □□(IATA)	: Y645

MANGANESE (II) CHLORIDE TETRAHYDRATE, 99% (metals basis)

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□□ (EU) 2020/878□ □□ □□□ REACH □□ (EC) 1907/2006□ □□

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

□□ □□ □□
□□ □□(ADN) : T5
□□ □□(ADN) : 274, 802
□□□(ADN) : 5 kg
□□□(ADN) : E1
□□ □□(ADN) : PP, EP
□□ □□/□□□ □□(ADN) : 0

□□ □□
□□ □□(RID) : T5
□□ □□(RID) : 274
□□ □□(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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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.

MANGANESE (II) CHLORIDE TETRAHYDRATE, 99% (metals basis)

□□□□□□□□

□□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□

□□ □□□□ □□ (2019/1148)

Not listed on the Explosives Precursors list (EU)

□□ □□□□ □□ (273/2004)

Not listed on the Drug Precursors list (EU)

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Employment restrictions

: □□ □□ □□□ (MuSchG) □□ □□ □□.
□□ □□□ □□□ (JArbSchG) □□ □□ □□.

WGK

: WGK 2, □□□ □□□ □□ (Classification according to AwSV; ID □□ 494).

□□□□ □□ □□ (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)

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

□□ □□ □□(12. BImSchV)				
□□	□□	□□	□□ □□	□□ □□
1.1.2	H2	Acute toxic, category 2 (all exposure routes), category 3 (inhalation, oral)	50,000 kg	200,000 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

: □□□ □□□□ □□□□□.

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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)
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)

MANGANESE (II) CHLORIDE TETRAHYDRATE, 99% (metals basis)

□□□□□□□□

□□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□

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

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□□□□ □□ (SR 813.11) : □□ 2

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

MANGANESE (II) CHLORIDE TETRAHYDRATE, 99% (metals basis)

□□□□□□□□

□□ (EU) 2020/878□ □□ □□□ REACH □□ (EC) 1907/2006□ □□

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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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H301	□□□ □□□.
H318	□□ □□ □□□ □□□.
H373	□□□ □□ □□ □□□□ □□□ □□□ □ □□.

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