MAGNESIUM CHLORIDE 0.01M (0.02N) STANDARDIZED SOLUTION traceable to NIST

□□□□□□□□

□□ (EU) 2020/878□ □□ □□□ REACH □□ (EC) 1907/2006□ □□
SDS Reference Number: R180A
□□ □□□□: 2/5/2019 □□ □□□□: 8/25/2026 □□ □□: 2/5/2019 □□: 1.0

□□ 1: □□□□□ □□□ □□ □□

1.1. □□□□

□□ □□	:	□□□
□□□	:	MAGNESIUM CHLORIDE 0.01M (0.02N) STANDARDIZED SOLUTION traceable to NIST
□□ □□	:	R180A
□□ □□	:	Solution
□□□	:	Magnesium chloride 0.01 Molar standardized solution

1.2. □□□□ □□ □□□□ □□ □□ □□ □□

□□ □□ □□

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

1.3. □□□□□□□□ □□□ □□

LOBA CHEMIE PVT.LTD.
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1.4. □□□□□□

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

□□ 2: □□□·□□□

2.1. □□□·□□□ □□

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

□□□□ □□

□□□□□, □□ □□ □ □□□□□□□

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

2.2. □□□□□□□ □□□ □□□□ □□

□□ (EC) No. 1272/2008□ □□ □□ □□[CLP]

□□ □□ □□

2.3. □□ □□

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

□ □□□□ REACH□ 59(1)□□ □□ □□□ □□ □□□ □□ □□□ □□□ □□□ □□□□ □□ □□□ □□□□ □□ □□□, □□□ □□ □□ (EU) 2017/2100 □□ □□□ □ □ (EU) 2018/605□ □□□ □□□ □□ □□□ 0.1% □□□ □□□ □□ □□□ □□ □□□ □□□□ □□ □□□ □□□□ □□ □□□□

MAGNESIUM CHLORIDE 0.01M (0.02N) STANDARDIZED SOLUTION traceable to NIST

□□□□□□□□

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

□□ 3: □□□□□ □□ □ □□□

3.2. □□□

□□	□□□□	%	Regulation (EC) No.1272/2008 [CLP]□ □□ □□
WATER	CAS □□: 7732-18-5 EC □□: 231-791-2	99.5 – 99.9	□□□□ □□
MAGNESIUM CHLORIDE HEXAHYDRATE	CAS □□: 7791-18-6	0.1 – 0.5	□□□□ □□

□□ 4: □□□□□□

4.1. □□□□ □□

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

□□□□ □ : □□□ □□□ □□ □□□ □□□ □□□□ □□ □□□ □□□ □□□□.

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

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

□□□ □ : Rinse mouth out with water. □□□□ □□□ □□□□(□□)□ □□□ □□□□.

Self protection of the first-aider : □□ □□□□ □□□ □□□□ □□□□□, □□□□□□ □□□ □□□, □□, □□□ □□ □□□□ □□□□ □□ □. □□□□□ □□□ □□□ □□□□ □□ □□ □□□□ □□□□□ □□□□□.

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. □□□ □□□

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

□□□□ □□□ : 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.

traceable to NIST

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. 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. 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. 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. 개인 보호구를 착용하시오. Avoid contact with skin, eyes and clothing.
위생 조치 : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. 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 : Keep in a cool, well-ventilated place away from heat.
보관 조건 : 환기가 잘 되는 곳에 보관하시오. 용기를 단단히 밀폐하시오.

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

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.

□□ □□ □□ □□:



□ □ □□ □□□

□ □□:

Chemical goggles or safety glasses

Skin protection

□□ □□:

Wear a mask

□ □□:

Protective gloves

□□□ □□

□□□ □□:

Wear appropriate mask

□□ □□ □□

□□ □□ □□:

□□□□ □□□□ □□□.

□□ 9: □□□□□ □□

9.1. □□□□ □□□□□ □□□ □□ □□

□□□ □□	:	□□
□□	:	Colourless.
□□	:	Clear liquid.
□□	:	Odourless.
□□ □□	:	□□□□
□□□	:	□□□□
□□□	:	□□□□
□□ □□□□ □□□ □□	:	□□□□
□□□	:	□□□
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□□□	:	□□□□
□□□□ □□	:	□□□□
□□ □□	:	□□□□
pH	:	5.5 – 7
□□(□□□)	:	□□□□
□□□	:	□: Miscible
Partition coefficient n-octanol/water (Log Kow)	:	□□□□
□□□	:	□□□□
50°C□□□ □□□	:	□□□□
□□	:	1.02 g/cm³
□□	:	□□□□
20°C□□□ □□ □□ □□	:	□□□□
□□ □□	:	□□□□

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. □□□ □ □□

□□□□.

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□ □□□, □□□ □□□ □□ □□

□□ □□ (□□)	:	□□□□ □□
□□ □□ (□□)	:	□□□□ □□
□□ □□ (□□)	:	□□□□ □□
□□ □□□ □□ □□□	:	□□□□ □□ pH: 5.5 – 7
□□ □ □□ □□ □□□	:	□□□□ □□ pH: 5.5 – 7
□□□ □□ □□ □□□	:	□□□□ □□
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□□ □□□□ □□ (1□ □□)	:	□□□□ □□
□□ □□□□ □□ (□□ □□)	:	□□□□ □□
□□ □□□	:	□□□□ □□

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.
□□ □□□□ □□□	:	□□□□ □□
□□ □□□□ □□□	:	□□□□ □□

12.2. □□□ □ □□□

MAGNESIUM CHLORIDE 0.01M (0.02N) STANDARDIZED SOLUTION traceable to NIST	
□□□ □ □□□	□□ □□ □□
MAGNESIUM CHLORIDE HEXAHYDRATE (7791-18-6)	
□□□ □ □□□	□□ □□ □□
WATER (7732-18-5)	
□□□ □ □□□	□□ □□ □□

12.3. □□ □□□

□□ □□

12.4. □□ □□□

□□ □□

12.5. PBT □ vPvB □□ □□

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12.6. □□□ □□ □□

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12.7. □□ □□ □□

□□ □□

□□ 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 □□

□□ □□□□ □□□□

14.2. UN □□ □□□

□□ □□□ (ADR) : Not regulated
□□ □□□ (IMDG) : Not regulated
□□ □□□ (IATA) : Not regulated
□□ □□□ (ADN) : Not regulated
□□ □□□ (RID) : Not regulated

traceable to NIST

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14.3. 운송에서의 위험성 등급

ADR

운송에서의 위험성 등급 (ADR) : Not regulated

IMDG

운송에서의 위험성 등급 (IMDG) : Not regulated

IATA

운송에서의 위험성 등급 (IATA) : Not regulated

ADN

운송에서의 위험성 등급 (ADN) : Not regulated

RID

운송에서의 위험성 등급 (RID) : Not regulated

14.4. 용기등급

용기 등급 (ADR) : Not regulated 용기 등급(IMDG) : Not regulated 용기 등급 (IATA) : Not regulated 포장 그룹(ADN) : Not regulated 용기 등급(RID) : Not regulated

14.5. 환경 유해성

그 밖의 참고사항 : 가용 추가 정보 없음

14.6. 사용자를 위한 특별 주의사항

내륙 수송

Not regulated

해상 운송

Not regulated

항공 운송

Not regulated

국내 수로 운송

Not regulated

철도 수송

Not regulated

14.7. 국제해사기구(IMO)에 따른 대량 해상 운송

해당없음

섹션 15: 법적 규제현황

15.1. 안전, 보건 및 환경과 관련하여 단일물질 또는 혼합물에 대한 특별 규정/법규

EU 규정

REACH 부속서 XVII (제한 목록)
REACH 부속서 XVII (제한 조건)에 등재된 물질을 포함하지 않음

REACH 부속서 XIV (승인 목록)
REACH 부속서 XIV (허가 목록)에 등재된 물질을 포함하지 않음

MAGNESIUM CHLORIDE 0.01M (0.02N) STANDARDIZED SOLUTION traceable to NIST

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

REACH □□ □□ □□ (SVHC)

REACH □□ □□ □□□ □□□ □□□ □□□□ □□

PIC □□ (□□□□□□)

PIC □□(□□ □□□□ □□□□ □□ □□ EU 649/2012)□ □□□ □□□ □□□□ □□

POP □□ (□□□ □□ □□□□)

POP □□□ □□□ □□□ □□□□ □□ (□□□□□□□□□□ □□ □□ EC 2019/1021)

Ozone Regulation (2024/590)

Not listed on the Ozone Depletion list (Regulation EU 2024/590)
Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

□□□□ □□(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)

□□ □□□□ □□□ □□□ □□□ □□□□ □□(□□ □ □□□□ □□□ □□ □□□ □□□□ □□ □□□ □□ □ □□□ □□ □□ EC 273/2004)

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□□

WGK	:	WGK 2, □□□ □□□ □□ (AwSV, □□□ 1□ □□ □□).

□□□□

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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15.2. □□ □□ □□□ □□

No chemical safety assessment has been carried out

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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	□□□ □□ □□

MAGNESIUM CHLORIDE 0.01M (0.02N) STANDARDIZED SOLUTION traceable to NIST

□□□□□□□□

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

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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	□□ □□ □□□

□□□□□□□□(SDS), EU

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