

ALUMINIUM SULPHATE OCTADECALHYDRATE EXTRA PURE

□□□□□□□□

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

SDS Reference Number: 00973

□□ □□□□: 4/9/2014 □□ □□□□: 9/15/2025 □□ □□: 12/26/2024 □□: 2.0

□□ 1: □□□□ □□ □□ □□ □□

1.1. □□□□

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: ALUMINIUM SULPHATE OCTADECALHYDRATE EXTRA PURE

EC □□

: 233-135-0

CAS □□

: 7784-31-8

□□ □□

: 00973

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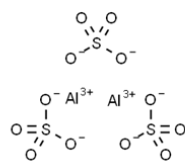
: Inorganic compound

□□ □□

: Al₂(SO₄)₃·18H₂O

□□ □□

:



H₂O H₂O H₂O H₂O H₂O H₂O

H₂O H₂O H₂O H₂O H₂O H₂O

H₂O H₂O H₂O H₂O H₂O H₂O

□□ □□

: Aluminum (III) sulphate Octadecahydrate

1.2. □□□□ □□ □□□□ □□ □□ □□ □□

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: Laboratory chemicals, Manufacture of substances

1.3. □□□□□□□□ □□□ □□

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1.4. □□□□□□

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

□□ 2: □□□·□□□

2.1. □□□·□□□ □□

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

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H290

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H314

H-□□ □□ EUH-□□ □□: □□ 16 □□

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ALUMINIUM SULPHATE OCTADECALHYDRATE EXTRA PURE

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

2.2. □□□□□□ □□ □□□□ □□

□□ (EC) No. 1272/2008 □□ □□ □□ [CLP]

□□ □□ □□□□ (CLP)



GHS05

□□□ (CLP)

: □□

□□·□□ □□ (CLP)

: H290 - □□□ □□□□ □□□.

H314 - □□□ □□ □□□ □□□ □□□.

□□ □□ □□ (CLP)

: P234 - □□□ □□□□ □□□□□.

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

P280 - □□□□, □□□, □□□, □□□□□ □(□) □□□□□.

P303+P361+P353 - □□(□□ □□□□) □□ □□□ □□ □□□ □□ □□□□. □□□ □□ □□□□.

P304+P340 - □□□□ □□□ □□□ □□ □□□ □□□ □□ □□□ □□□ □□□□.

P310 - □□ □□ □□ □□ □□ □□ □(□) □□□□□.

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

2.3. □□ □□

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

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3.1. □□□□

□□ □□ : □□□□□□

□□	□□□□	%
ALUMINIUM SULPHATE OCTADECALHYDRATE	CAS □□: 7784-31-8 EC □□: 233-135-0	100

□□ 4: □□□□□□

4.1. □□□□ □□

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

□□□□ □ : □□□ □□□ □□ □□□ □□□□ □□ □□□ □□□□□. Allow affected person to breathe fresh air. □□□ □□□□□ □□□ □□□ □□ □□□ □□□□□ □□ □□□ □□□□□.

□□□ □□□□□ □ : □□□ □□□ □□ □□□□. □□ □□□□ □□/□□□□ □□□□. □□□ □□ □□□□ [□□ □□□□□]. □□□ □□ □□□ □□ □□□□. Call a physician immediately.

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

□□□□ □ : □□ □□□□□. Do not induce vomiting. Call a physician immediately.

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

4.2. □□ □□ □□□ □□ □□□ □□ □□

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

□□ □□ □□ □□/□□ : Burns.

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

□□ □□ □□/□□ : Burns.

4.3. □□□□ □□ □□ □□ □□ □□ □□

Treat symptomatically.

ALUMINIUM SULPHATE OCTADECYDRATE EXTRA PURE

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

□□ 5: □□□□□□ □□□□

5.1. □□□□ □□□□

- □□□□ : Carbon dioxide. Dry powder. Foam. Water spray.
- □□□□ : Do not use extinguishing media containing water.

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 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. □□□□ □□□□ □□ □□□□ □□□□ □□□□ □□□□

- □□ : □□□□ □□□□ □□ □□□□ □□□□ □□□□ □□□□ □□□□□□□□.
- □□□□ □□ : Wear recommended personal protective equipment.
- □□ : Ventilate spillage area. Evacuate unnecessary personnel. □□ □□□□ □□□□ □□□□. □□/□□□□/□□□□□□□□□□ □(□) □□□□ □□□□.
- □□ □□ □□ : Do not attempt to take action without suitable protective equipment. □□□□ □□ □□□□ □□□□□□. □□ □□□□ □□□□ □□ 8: "□□□□ □□□□□□"□ □□□□□□.
- □□ : Ventilate area. 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. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. On land, sweep or shovel into suitable containers.
- □□ □□□□ : 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. □□ □□ □□□□ □□□□. Do not breathe vapours. □□/□□/□□□□/□□□□□□ □(□) □□□□ □□□□. □□ □□□□ □□□□□□.
- □□ : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. □□ □□ □□□□ □□□□□□□□. □□□□ □□□□ □□□□ □□□□, □□□□ □□□□ □□□□. Always wash hands after handling the product.

ALUMINIUM SULPHATE OCTADECALHYDRATE EXTRA PURE

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

7.2. □□□□ □□□□ □□□□ □□ □□ □□

- □□ : Keep in a cool, well-ventilated place away from heat.
- □□ : □□□ □ □□ □□ □□□□. □□□ □□□ □□□□□□. Store in corrosive resistant container with a resistant inner liner. □□□ □□□□ □□□□□□. □□□□□□ □□ □□□□□□.
- □ □□ : □□.
- : Store always product in container of same material as original container.

7.3. □□ □□ □□ □□

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8: □□□□ □ □□□□□

8.1. □□ □□ □□ □□

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8.2. □□□□

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□□□ □□□ □□:
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

□□ □□ □□
□□ □□ □□:
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9: □□□□□ □□

9.1. □□□□ □□□□□ □□□ □□ □□

- □□ : □□
- : White.
- : Crystalline powder.
- : 666.42 g/mol
- : characteristic.
- □□ : □□□□

ALUMINIUM SULPHATE OCTADECYDRAHE EXTRA PURE

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

□□□	: 86.5 °C
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□□ □□	: □□□□
pH	: 2.5 – 4 at 20 °C
pH □□□ □□	: 2 %
□□(□□□)	: □□□□
□□□	: □: 364 g/l at 20 °C - Soluble in water □□□: Slightly soluble in Ethanol
Partition coefficient n-octanol/water (Log Kow)	: □□□□
□□□	: □□□□
50°C □□□ □□□	: □□□□
□□	: 1.71 g/cm ³ at 20 °C
□□	: □□□□
20°C □□□ □□ □□ □□	: □□□□
Particle size	: □□□□

9.2. □ □□ □□□□

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□□ 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. □□□ □ □□

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10.5. □□□ □ □□

metals.

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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□□ □□ (□□)	: □□□□ □□
□□ □□□ □□ □□□	: Causes severe skin burns. pH: 2.5 – 4 at 20 °C
□□ □ □□ □□ □□□	: Assumed to cause serious eye damage pH: 2.5 – 4 at 20 °C
□□□ □□ □□ □□□	: □□□□ □□

ALUMINIUM SULPHATE OCTADECALHYDRATE EXTRA PURE

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

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ALUMINIUM SULPHATE OCTADECALHYDRATE EXTRA PURE (7784-31-8)	
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11.2. □□ □□ □□

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□□ 12: □□□ □□□ □□

12.1. □□

□□□ - □□	:	Before neutralisation, the product may represent a danger to aquatic organisms.
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□□ □□□□ □□□	:	□□□□ □□

12.2. □□□ □□□□

ALUMINIUM SULPHATE OCTADECALHYDRATE EXTRA PURE (7784-31-8)	
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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.
□□/□□ □□ □□□□	:	Comply with applicable regulations for solid waste disposal. Disposal must be done according to official regulations.
□□ □□	:	Do not re-use empty containers.

□□ 14: □□□ □□□ □□

ADR / IMDG / IATA / ADN / RID □□ □□

ALUMINIUM SULPHATE OCTADECALHYDRATE EXTRA PURE

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

14.1. UN □□ □□ ID □□

UN-□□ (ADR) : UN 3260
UN-□□ (IMDG) : UN 3260
UN-□□ (IATA) : UN 3260
UN-□□ (ADN) : UN 3260
UN-□□ (RID) : UN 3260

14.2. UN □□ □□□

□□ □□□ (ADR) : □□□ □□, □□, □□□, □□ □□□ □□□ □□ □
□□ □□□ (IMDG) : CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.
□□ □□□ (IATA) : Corrosive solid, acidic, inorganic, n.o.s.
□□ □□□ (ADN) : □□□ □□, □□, □□□, □□ □□□ □□□ □□ □
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□□ □□ □□ (ADR) (ADR) : UN 3260 □□□ □□, □□, □□□, □□ □□□ □□□ □□ □ (ALUMINIUM SULPHATE OCTADECALHYDRATE), 8, III, (E)
Transport document description (IMDG) : UN 3260 CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S., 8, III
Transport document description (IATA) : UN 3260 Corrosive solid, acidic, inorganic, n.o.s. (ALUMINIUM SULPHATE OCTADECALHYDRATE), 8, III
Transport document description (ADN) : UN 3260 □□□ □□, □□, □□□, □□ □□□ □□□ □□ □, 8, III
Transport document description (RID) : UN 3260 □□□ □□, □□, □□□, □□ □□□ □□□ □□ □, 8, III

14.3. □□□□□ □□□ □□

ADR

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



IMDG

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□□ □□ (IMDG) : 8



IATA

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□□ □□ (IATA) : 8



ADN

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□□ □□ (ADN) : 8



RID

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□□ □□ (RID) : 8

ALUMINIUM SULPHATE OCTADECYDRAHE EXTRA PURE

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



14.4. □□□□

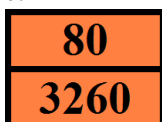
□□ □□ (ADR)	: III
□□ □□(IMDG)	: III
□□ □□ (IATA)	: III
□□ □□(ADN)	: III
□□ □□(RID)	: III

14.5. □□ □□□

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

14.6. □□□□ □□ □□ □□□□

□□ □□	
□□ □□ (ADR)	: C2
□□ □□(ADR)	: 274
□□□(ADR)	: 5kg
□□□(ADR)	: E1
□□ □□(ADR)	: P002, IBC08, LP02, R001
□□ □□ (ADR)	: B3
□□ □□ □□ □□ □□(ADR)	: MP10
□□□ □□ □ □□ □□□□ □□ (ADR)	: T1
□□□ □□ □ □□ □□□□ □□ □□ (ADR)	: TP33
□□ □□(ADR)	: SGAV
□□ □□□□ □□	: AT
□□ □□(ADR)	: 3
□□ □□ □□ □□ - □□ □□(ADR)	: VC1, VC2, AP7
□□ □□ □□(Kemler □□)	: 80
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)	: SGG1, SG36, SG49
□□□ □□□□ (IMDG)	: Causes burns to skin, eyes and mucous membranes.

□□ □□	
PCA □□ □□(IATA)	: E1
PCA □□ □□(IATA)	: Y845
PCA □□ □□ □□ □□□(IATA)	: 5kg
PCA □□ □□(IATA)	: 860

ALUMINIUM SULPHATE OCTADECALHYDRATE EXTRA PURE

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

PCA □□ □□□(IATA) : 25kg
CAO □□ □□□(IATA) : 864
CAO □□ □□□(IATA) : 100kg
□□ □□(IATA) : A3, A803
ERG □□(IATA) : 8L

□□ □□ □□
□□ □□(ADN) : C2
□□ □□(ADN) : 274
□□□(ADN) : 5 kg
□□□(ADN) : E1
□□ □□(ADN) : PP, EP
□□ □□/□□□ □□(ADN) : 0

□□ □□
□□ □□(RID) : C2
□□ □□(RID) : 274
□□ □□(RID) : 5kg
□□□(RID) : E1
□□ □□ (RID) : P002, IBC08, LP02, R001
□□ □□ (RID) : B3
□□ □□ □□ □□ □□(RID) : MP10
□□□□ □□ □□ □□□□ □□ (RID) : T1
□□□□ □□ □□ □□□□ □□ □□ (RID) : TP33
RID □□□□ □□ □□(RID) : SGAV
□□ □□(RID) : 3
□□ □□ □□ □□ - □□ □□(RID) : VC1, VC2, AP7
□□ □□□□ : CE11
□□□□ □□ □□ (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 □□□□ □□□□ □□□□ □□ (□□□□□□□□□□ □□ □□ EC 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) □□□□ □□ □□□□ □□

ALUMINIUM SULPHATE OCTADECALHYDRATE EXTRA PURE

□□□□□□□□

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

□□ □ □□□□:	
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

ALUMINIUM SULPHATE OCTADECALHYDRATE EXTRA PURE

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

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UFI	□□ □□ □□□

H-□□ □□ EUH-□□ □□:	
□□ □□□ 1	□□ □□□, □□ 1
□□ □□□ 1A	□□ □□□/□□ □□□, □□ 1, □□□□□ 1A
H290	□□□ □□□□ □□□.
H314	□□□ □□ □□□ □□□ □□□.

□□□□□□□□(SDS), EU

□□□□ □□ □□□ □□□ □□ □□□ □□ □□□ □□, □□ □□ □□ □□□ □□ □□□□ □□ □□□□. □□□□ □□□ □□□ □□□ □□□ □□ □□ □□□ □□□□.