


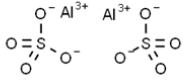
ALUMINIUM SULPHATE OCTADECALHYDRATE EXTRA PURE

□□□□□□□□

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
SDS Reference Number: 00973
□□□□□□: 4/9/2014 □□□□□□: 12/26/2024 □□□□: 4/20/2016 □□: 1.0

□□ 1: □□□□□ □□□ □□ □□

1.1. □□□□

□□ □□	: □□
□□ □□	: ALUMINIUM SULPHATE OCTADECALHYDRATE EXTRA PURE
EC □□	: 233-135-0
CAS □□	: 7784-31-8
□□ □□	: 00973
□□ □□	: Inorganic compound
□□ □□	: Al ₂ (SO ₄) ₃ ·18H ₂ O
□□ □□	:
□□ □□	: 
	: 
	: H ₂ O H ₂ O H ₂ O H ₂ O H ₂ O H ₂ O
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	: H ₂ O H ₂ O H ₂ O H ₂ O H ₂ O H ₂ O
□□ □□	: Aluminum (III) sulphate Octadecahydrate

1.2. □□□□ □□ □□□□ □□ □□ □□ □□

□□ □□ □□ : Laboratory chemicals, Manufacture of substances

1.3. □□□□□□□□ □□□ □□

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1.4. □□□□□□

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

□□ 2: □□□·□□□

2.1. □□□·□□□ □□

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

□□ □□□, □□ 1	H290
□□ □□□/□□ □□□, □□ 1, □□□□ 1A	H314
□□(H) □□ □ EUH □□ □□: 16□ □□.	

□□□□□, □□ □□ □ □□□□□□□

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ALUMINIUM SULPHATE OCTADECALHYDRATE EXTRA PURE

□□□□□□□□

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

2.2. □□□□□□ □□ □□□□ □□

□□ (EC) No. 1272/2008 □□ □□ □□[CLP]

□□ □□ □□□□(CLP)

:



GHS05

□□□ (CLP)

: □□

□□-□□ □□ (CLP)

: H290 - □□□ □□□□ □□□.

H314 - □□□ □□ □□□ □□□ □□□.

□□ □□ □□(CLP)

: P234 - □□□ □□□□ □□□□□.

P301+P330+P331 - □□□□ □□ □□□□□. □□□□ □□ □□□□.

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

2.3. □□ □□

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

3.3. □□□□□ □□ □□□□

3.1. □□□□

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: □□□□□□

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

4.4. □□□□□□

4.1. □□□□ □□

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: Call a physician immediately.

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

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

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

First-aid measures for first aider

: □□□□ □□□□ □□□ □□ □□ □□□ □□□□ □□□□.

4.2. □□ □□ □□□□ □□ □□□□ □□ □□□□

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

□□ □□ □□ □□/□□

: Burns.

□□ □□ □□ □□/□□

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

□□ □□ □□/□□

: Burns.

4.3. □□□□ □□ □□ □□ □□ □□ □□ □□

Treat symptomatically.

ALUMINIUM SULPHATE OCTADECYDRAHE EXTRA PURE

□□□□□□□□

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

□□ 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. □□□ □□□□ □□ □□□ □□□□

□□□□ □□□□ □□□.

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 OCTADECYDRAHE EXTRA PURE

□□□□□□□□

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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.

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□ □□:

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 OCTADECYDRAE EXTRA PURE

□□□□□□□□

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

□□□	:	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. □ □□ □□□□

□□ □□

□□ 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 □ □□□, □□□ □□□ □□ □□

□□ □□ (□□)	:	□□□□ □□
□□ □□ (□□)	:	□□□□ □□
□□ □□ (□□)	:	□□□□ □□
□□ □□□ □□ □□□	:	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

□□□□□□□□

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

□□□□ □□□□	:	□□□□ □□
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□□ □□□□ □□ (□□ □□)	:	□□□□ □□
□□ □□□□	:	□□□□ □□

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

11.2. □□ □□ □□

□□ □□

□□ 12: □□□ □□□ □□

12.1. □□

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

12.2. □□□ □ □□□

ALUMINIUM SULPHATE OCTADECALHYDRATE EXTRA PURE (7784-31-8)	
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12.3. □□ □□□

□□ □□

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

□□□□□□□□

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

14.1. UN □□ □□ ID □□

□□ □□□□ □□□□

14.2. UN □□ □□□□

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

14.3. □□□□□ □□□ □□

ADR
□□□□□ □□□ □□ (ADR) : Not regulated

IMDG
□□□□□ □□□ □□ (IMDG) : Not regulated

IATA
□□□□□ □□□ □□ (IATA) : Not regulated

ADN
□□□□□ □□□ □□ (ADN) : Not regulated

RID
□□□□□ □□□ □□ (RID) : Not regulated

14.4. □□□□

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

14.5. □□ □□□□

□□ □□ □□□□ : □□ □□ □□ □□

14.6. □□□□ □□ □□ □□□□

□□ □□
Not regulated

□□ □□
Not regulated

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Not regulated

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Not regulated

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Not regulated

14.7. □□□□□□(IMO)□ □□ □□ □□ □□

□□□□

ALUMINIUM SULPHATE OCTADECALHYDRATE EXTRA PURE

□□□□□□□□

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

□□ 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)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

□□ □□□□ □□ (2019/1148)

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

□□ □□□□ □□ (273/2004)

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

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VOC ordinance (ChemVOCFarbV) :

WGK : WGK 3, □□ □□ □□□ (Classification according to AwSV).

□□ □□ □□ (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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15.2. □□ □□ □□□ □□

No chemical safety assessment has been carried out

□□ 16: □ □□ □□□□

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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

ALUMINIUM SULPHATE OCTADECYDRAHE EXTRA PURE

□□□□□□□□

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

□□ □ □□□□:	
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)

ALUMINIUM SULPHATE OCTADECALHYDRATE EXTRA PURE

□□□□□□□□

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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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	□□□ □□□□ □ □□.
H314	□□□ □□ □□□ □ □□□ □□□.

□□□□□□□□(SDS), EU

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