

CESIUM NITRATE AR

□□□□□□□□
 □□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□
 SDS Reference Number: 02654
 □□ □□□□: 4/9/2014 □□ □□□□: 12/5/2025 □□ □□: 5/18/2016 □□: 1.0

□□ 1: □□□□□ □□□ □□ □□

1.1. □□□□

□□ □□ : □□
 □□ □□ : CESIUM NITRATE AR
 EC □□ : 232-146-8
 CAS □□ : 7789-18-6
 □□ □□ : 02654
 □□ □□ : Inorganic compound
 □□ □□ : CsNO₃
 □□ □□ :

$$\left[\begin{array}{c} \text{O} \\ \parallel \\ \text{-O-N}^+\text{-O}^- \end{array} \right] \text{Cs}^+$$

 □□ □□ : Caesium nitrate

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 : H271
 □□ □□ (□□), □□ 4 : H302
 □□□□, □□ 2 : H361f
 H-□□ □□ EUH-□□ □□: □□ 16 □□

□□□□□, □□ □□ □□ □□□□□□
 □□ □□ □□ □□ □□ □□; □□□□. □□ □□ □□□□□ □□ □□ □□ □□ □□ □□ □□.

2.2. □□□□□□□ □□□ □□□□ □□

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

□□ □□ □□□□ (CLP)



□□□ (CLP) : □□

CESIUM NITRATE AR

□□□□□□□□

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

□□ 8: □□□□ □□□□□□

8.1. □□ □□ □□

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8.2. □□□□

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Ensure good ventilation of the work station.

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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.

□□□

: 194.91 g/mol

□□

: Odourless.

□□ □□

: □□□□

□□□

: 414 °C

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: □□□□

□□ □□□□ □□□□ □□

: Decomposes

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: □□□

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: The substance or mixture is classified as oxidizing with the subcategory 3. □□ □□ □□□□ □□□ □□; □□□□.

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: □□□□

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: 400 °C

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: □□□□

pH

: 5 – 7.5 at 20 °C

CESIUM NITRATE AR

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

pH □□□ □□	: 5 %
□□(□□□)	: □□□□
□□□	: □: 239.5 g/l at 20 °C - Soluble in water □□□: Slightly soluble
Partition coefficient n-octanol/water (Log Kow)	: □□□□
□□□	: □□□□
50°C □□□ □□□	: □□□□
□□	: 3.685 g/cm ³ at 25 °C
□□	: □□□□
20°C □□□ □□ □□ □□	: □□□□
Particle size	: □□□□

9.2. □□□ □□□□

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□□ 10: □□□ □□□□

10.1. □□□

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10.2. □□□ □□□

□□ □□ □□ □□ □□ □□; □□□□.

10.3. □□ □□□ □□□

No dangerous reactions known under normal conditions of use.

10.4. □□□ □□□

□. Sparks. Open flame. □□□ □□□ □□□ □□□□. □□, □□□, □□□□ □□ □□□□□□.

10.5. □□□ □□□

Combustible materials.

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: 5 – 7.5 at 20 °C
□□ □ □□ □□ □□□	: □□□□ □□ pH: 5 – 7.5 at 20 °C
□□□ □□ □□ □□□	: □□□□ □□
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□□ □□□□ □□ (□□ □□)	: □□□□ □□
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CESIUM NITRATE AR (7789-18-6)

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CESIUM NITRATE AR

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

□□ □□□ (IMDG)	: CAESIUM NITRATE
□□ □□□ (IATA)	: Caesium nitrate
□□ □□□ (ADN)	: □□ □□
□□ □□□ (RID)	: □□ □□
□□ □□ □□ (ADR) (ADR)	: UN 1451 □□ □□, 5.1, III, (E)
Transport document description (IMDG)	: UN 1451 CAESIUM NITRATE, 5.1, III
Transport document description (IATA)	: UN 1451 Caesium nitrate, 5.1, III
Transport document description (ADN)	: UN 1451 □□ □□, 5.1, III
Transport document description (RID)	: UN 1451 □□ □□, 5.1, III

14.3. □□□□□ □□□ □□

ADR

□□□□□ □□□ □□ (ADR)	: 5.1
□□ □□ (ADR)	: 5.1



IMDG

□□□□□ □□□ □□ (IMDG)	: 5.1
□□ □□ (IMDG)	: 5.1



IATA

□□□□□ □□□ □□ (IATA)	: 5.1
□□ □□ (IATA)	: 5.1



ADN

□□□□□ □□□ □□ (ADN)	: 5.1
□□ □□ (ADN)	: 5.1



RID

□□□□□ □□□ □□ (RID)	: 5.1
□□ □□ (RID)	: 5.1



14.4. □□□□

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

CESIUM NITRATE AR

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

14.5. □□ □□□

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

□□ □□ :
□□ □□ (ADR) : O2
□□□(ADR) : 5kg
□□□(ADR) : E1
□□ □□(ADR) : P002, IBC08, LP02, R001
□□ □□ (ADR) : B3
□□ □□ □□ □□ □□(ADR) : MP10
□□□ □□ □ □□ □□□□ □□ (ADR) : T1
□□□ □□ □ □□ □□□□ □□ □□ (ADR) : TP33
□□ □□(ADR) : SGAV
□□ □□ □□(ADR) : TU3
□□ □□□□ □□ : AT
□□ □□(ADR) : 3
□□ □□ □□ □□ - □□ □□(ADR) : VC1, VC2, AP6, AP7
□□ □□ □□ □□ - □□, □□ □□ □□(ADR) : CV24
□□ □□ □□(Kemler □□) : 50
Orange plates (□□□□□□) :



□□ □□ □□ (ADR) : E
EAC □□ : 1Z

□□ □□

□□ □□(IMDG) : 5 kg
□□□(IMDG) : E1
□□ □□ (IMDG) : P002, LP02
IBC □□ □□(IMDG) : IBC08
IBC □□ □□ (IMDG) : B3
□□ □□ (IMDG) : T1
□□ □□ □□ (IMDG) : TP33
□□ □□ (IMDG) : A
□□□ □□□□ (IMDG) : White powder. Mixtures with combustible material are readily ignited and may burn fiercely.
Harmful if swallowed.
MFAG-□□ : 140

□□ □□

PCA □□ □□(IATA) : E1
PCA □□ □□(IATA) : Y546
PCA □□ □□ □□ □□□(IATA) : 10kg
PCA □□ □□(IATA) : 559
PCA □□ □□□(IATA) : 25kg
CAO □□ □□(IATA) : 563
CAO □□ □□□(IATA) : 100kg
□□ □□(IATA) : A803
ERG □□(IATA) : 5L

□□ □□ □□

□□ □□(ADN) : O2
□□□(ADN) : 5 kg
□□□(ADN) : E1
□□□□(ADN) : B
□□ □□(ADN) : PP

CESIUM NITRATE AR

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

□□ □□ (ADN) : LO04
□□ □□ □□ (ADN) : CO02
□□ □□/□□□□ □□ (ADN) : 0
□□ □□/□□ (ADN) : CO02 and LO04 apply only when this substance is carried in bulk or without packaging

□□ □□
□□ □□ (RID) : O2
□□ □□ (RID) : 5kg
□□□ (RID) : E1
□□ □□ (RID) : P002, IBC08, LP02, R001
□□ □□ (RID) : B3
□□ □□ □□ □□ □□ (RID) : MP10
□□□□ □□ □□ □□□□ □□ (RID) : T1
□□□□ □□ □□ □□□□ □□ □□ (RID) : TP33
RID □□□□ □□ □□ (RID) : SGAV
RID □□□□ □□ □□ (RID) : TU3
□□ □□ (RID) : 3
□□ □□ □□ □□ - □□ □□ (RID) : VC1, VC2, AP6, AP7
□□ □□ □□ □□ - □□, □□ □□ □□ (RID) : CW24
□□ □□□□ : CE11
□□□□ □□ □□ (RID) : 50

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 □□□□ □□□□ □□ (□□ 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.

□□ □□□□ □□ (2019/1148)

Not listed on the Explosives Precursors list (EU)

□□ □□□□ □□ (273/2004)

Not listed on the Drug Precursors list (EU)

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□□
WGK : WGK 1, □□ □□ □□ □□ (Classification according to AwSV; ID □□ 9270).

CESIUM NITRATE AR

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

□□□□ □□ □□ (ChemVerbotsV) : This product is subject to ChemVerbotsV Annex 2 Entry 2. The following requirement must be observed: Basic requirements for the implementation of the submission (according to § 8 paragraph 1, 3 and 4).

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SZW-lijst van kankerverwekkende stoffen : CESIUM NITRATE □(□) □□□ □□□□□

SZW-lijst van mutagene stoffen : CESIUM NITRATE □(□) □□□ □□□□□

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

□□ 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
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

CESIUM NITRATE AR

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

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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
UFI	□□ □□ □□□

CESIUM NITRATE AR

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

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□□ □□ 4 (□□)	□□ □□ (□□), □□ 4
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□□□□ 2	□□□□, □□ 2
H271	□□ □□ □□□ □□□ □ □□; □□□□.
H302	□□□ □□□.
H361f	□□ □□□ □□□ □□ □□□□.

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