

VANADIUM PENTOXIDE EXTRA PURE

□□□□□□□□

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

2.2. □□□□□□ □□ □□□□ □□

□□ (EC) No. 1272/2008 □□ □□ □□[CLP]

□□ □□ □□□□(CLP)

:



GHS07



GHS08



GHS09

□□□ (CLP)

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□□·□□ □□ (CLP)

: H302+H332 - □□□□ □□□□ □□□□□.

H335 - □□□ □□□ □□□ □□□.

H341 - □□□□ □□□ □□□ □□□ □□□.

H361d - □□□ □□□ □□□ □□□.

H372 - □□□ □□ □□ □□□□ □□□ □□□ □□□.

H411 - □□□□ □□□ □□ □□□□□□ □□□.

□□ □□ □□(CLP)

: P201 - □□ □ □□ □□□□ □□□□□.

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

P273 - □□□□ □□□□ □□□.

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

P301+P312 - □□ □□: □□□□ □□□ □□ □□ □□ □□ □(□) □□□□□.

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

P308+P313 - □□□□□ □□□ □□□ □□: □□□ □□·□□□□ □□□□.

2.3. □□ □□

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

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3.1. □□□□

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□□	□□□□	%
VANADIUM PENTOXIDE	CAS □□: 1314-62-1 EC □□: 215-239-8 EC □□ □□: 023-001-00-8	100

□□ 4: □□□□□□

4.1. □□□□ □□

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First-aid measures for first aider

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4.2. □□ □□ □□□□ □□ □□□□ □□ □□□

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VANADIUM PENTOXIDE EXTRA PURE

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

- □□ □ □□/□□ : None under normal conditions. Dust may cause irritation in skin folds or by contact in combination with tight clothing.
- □□ □ □□/□□ : None under normal conditions. Dust from this product may cause eye irritation.
- □ □□/□□ : □□□ □□□.
- □□ : □□□ □□□ □□□ □□□.

4.3. □□□□ □□ □ □□ □□ □□ □□ □□

Treat symptomatically.

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5.1. □□□ □□□

- □□□ : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2). 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. Evacuate unnecessary personnel. □□/□□/□□□□/□□□□□□ □(□) □□□ □ □□□.
- □□□□ : Do not attempt to take action without suitable protective equipment. □□□ □□ □□□□ □□□□□□. □ □ □□□ □□□ □□ 8: "□□□□ □ □□□□□"□ □□□□□.
- □□ : Stop release. Evacuate unnecessary personnel.

6.2. □□□ □□□□ □□ □□□ □□□□

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6.3. □□ □□ □□ □□

- : □□□□ □□□□.
- □□ : Mechanically recover the product. Clear up rapidly by scoop or vacuum. □□□ □□□ □□ □□□□□ □□□ □□ □□□ □□.
- □□ □□□□ : Dispose of materials or solid residues at an authorized site.

6.4. □□ □□ □□

For further information refer to section 13.

VANADIUM PENTOXIDE EXTRA PURE

□□□□□□□□

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

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7.1. □□□□□□

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Always wash hands after handling the product.

7.2. □□□□ □□□ □□□ □□□ □□ □□

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

7.3. □□ □□ □□

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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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VANADIUM PENTOXIDE EXTRA PURE

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

□□ 9: □□□□□□ □□

9.1. □□□□ □□□□□□ □□□□ □□ □□

□□□ □□	:	□□
□□	:	Brown.
□□	:	Crystalline powder.
□□□	:	181.88 g/mol
□□	:	Odourless.
□□ □□	:	□□□□
□□□	:	690 °C
□□□	:	□□□□
□□ □□□□ □□□ □□	:	1750 °C (Decomposes)
□□□	:	□□□
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□□ □□	:	□□□□
pH	:	2.7 at 20 °C
pH □□	:	saturated aqueous solution
□□(□□□)	:	□□□□
□□□	:	□: 0.7 g/l at 20 °C - Slightly soluble
Partition coefficient n-octanol/water (Log Kow)	:	□□□□
□□□	:	□□□□
50°C□□□□ □□□	:	□□□□
□□	:	3.36 g/cm ³
□□	:	□□□□
20°C□□□□ □□ □□ □□	:	6.3
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. □□□ □ □□

□□□□. Air contact. Moisture.

10.5. □□□ □ □□

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10.6. □□□ □□□□ □□□□

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

VANADIUM PENTOXIDE EXTRA PURE

□□□□□□□□

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

□□ 11: □□□ □□ □□

11.1. □□ (EC) No 1272/2008 □ □□□, □□□ □□□ □□ □□

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pH: 2.7 at 20 °C
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pH: 2.7 at 20 °C
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VANADIUM PENTOXIDE EXTRA PURE (1314-62-1)

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11.2. □□ □□ □□

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□□ 12: □□□ □□□ □□

12.1. □□

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12.2. □□□ □ □□□

VANADIUM PENTOXIDE EXTRA PURE (1314-62-1)

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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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VANADIUM PENTOXIDE EXTRA PURE

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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.
- /□□ □□ □□□□ : □□, □□, □□ □/□□ □□ □□□□ □□ □□ □□□□ □□ □□ □□□□ □□ □□□□□□.
- □□ : Disposal must be done according to official regulations.
- □□ : Do not re-use empty containers.

□□ 14: □□□ □□□ □□

ADR / IMDG / IATA / ADN / RID □□ □□

14.1. UN □□ □□ ID □□

- UN-□□(ADR) : UN 2862
- UN-□□(IMDG) : UN 2862
- UN-□□(IATA) : UN 2862
- UN-□□(ADN) : UN 2862
- UN-□□(RID) : UN 2862

14.2. UN □□ □□□

- □□□ (ADR) : □□□ □□□
- □□□ (IMDG) : VANADIUM PENTOXIDE
- □□□ (IATA) : Vanadium pentoxide
- □□□ (ADN) : □□□ □□□
- □□□ (RID) : □□□ □□□
- □□ □□ (ADR) (ADR) : UN 2862 □□□ □□□, 6.1, III, (E), □□□ □□
- □□ □□ (IMDG) : UN 2862 VANADIUM PENTOXIDE, 6.1, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
- □□ □□ (IATA) : UN 2862 Vanadium pentoxide, 6.1, III, ENVIRONMENTALLY HAZARDOUS
- □□ □□ (ADN) : UN 2862 □□□ □□□, 6.1, III, □□□ □□
- □□ □□ (RID) : UN 2862 □□□ □□□, 6.1, III, □□□ □□

14.3. □□□□□ □□□ □□

ADR

- □□□ □□ (ADR) : 6.1
- □□ (ADR) : 6.1



IMDG

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



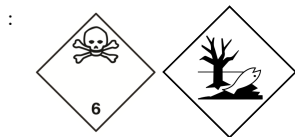
IATA

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

VANADIUM PENTOXIDE EXTRA PURE

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ADN
 □□□□□ □□□ □□ (ADN)
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: 6.1
 : 6.1
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RID
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: 6.1
 : 6.1
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14.4. □□□□

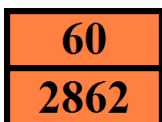
□□ □□ (ADR) : III
 □□ □□(IMDG) : III
 □□ □□ (IATA) : III
 □□ □□(ADN) : III
 □□ □□(RID) : III

14.5. □□ □□□

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

□□ □□ : T5
 □□ □□(ADR) : 600
 □□ □□(ADR) : 5kg
 □□□(ADR) : E1
 □□□(ADR) : P002, IBC08, LP02, R001
 □□ □□ (ADR) : B3
 □□ □□ □□ □□ □□(ADR) : MP10
 □□□ □□ □ □□ □□□□ □□ (ADR) : T1
 □□□ □□ □ □□ □□□□ □□ □□ (ADR) : TP33
 □□ □□(ADR) : SGAH
 □□ □□ □□(ADR) : TU15, TE19
 □□ □□□□ □□ : AT
 □□ □□(ADR) : 2
 □□ □□ □□ □□ - □□ □□(ADR) : VC1, VC2, AP7
 □□ □□ □□ □□ - □□, □□ □ □□□(ADR) : CV13, CV28
 □□ □□ □□ □□ - □□(ADR) : S9
 □□ □□ □□(Kemler □□) : 60
 Orange plates (□□□□□□) :



□□ □□ □□ (ADR) : E

VANADIUM PENTOXIDE EXTRA PURE

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EAC □□	: 2X
□□ □□	
□□ □□(IMDG)	: 5 kg
□□□(IMDG)	: E1
□□ □□ (IMDG)	: P002, LP02
IBC □□ □□(IMDG)	: IBC08
IBC □□ □□ (IMDG)	: B3
□□ □□ (IMDG)	: T1
□□ □□ □□ (IMDG)	: TP33
□□ □□ (IMDG)	: A
□□□ □□□□ (IMDG)	: Brownish powder. Slightly soluble in water. Toxic if swallowed, by skin contact or by inhalation.
MFAG-□□	: 151
□□ □□	
PCA □□ □□(IATA)	: E1
PCA □□ □□(IATA)	: Y645
PCA □□ □□ □□ □□□(IATA)	: 10kg
PCA □□ □□(IATA)	: 670
PCA □□ □□□(IATA)	: 100kg
CAO □□ □□(IATA)	: 677
CAO □□ □□□(IATA)	: 200kg
ERG □□(IATA)	: 6L
□□ □□ □□	
□□ □□(ADN)	: T5
□□ □□(ADN)	: 600, 802
□□□(ADN)	: 5 kg
□□□(ADN)	: E1
□□ □□(ADN)	: PP, EP
□□ □□/□□□ □□(ADN)	: 0
□□ □□	
□□ □□(RID)	: T5
□□ □□(RID)	: 600
□□ □□(RID)	: 5kg
□□□(RID)	: E1
□□ □□ (RID)	: P002, IBC08, LP02, R001
□□ □□ (RID)	: B3
□□ □□ □□ □□ □□(RID)	: MP10
□□□ □□ □ □□ □□□□ □□ (RID)	: T1
□□□ □□ □ □□ □□□□ □□ □□ (RID)	: TP33
RID □□□ □□ □□(RID)	: SGAH
RID □□□ □□ □□(RID)	: TU15
□□ □□(RID)	: 2
□□ □□ □□ □□ - □□ □□(RID)	: VC1, VC2, AP7
□□ □□ □□ □□ -□□, □□ □□ □□(RID)	: CW13, CW28, CW31
□□ □□□	: CE11
□□□ □□ □□ (RID)	: 60

14.7. □□□□□□(IMO) □□ □□ □□ □□

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□□ 15: □□ □□□□

15.1. □□, □□ □□□□ □□□□ □□□□ □□ □□ □□/□□

EU □□

REACH □□□ XVII (□□ □□)

REACH □□□ XVII □□ □□ □□

VANADIUM PENTOXIDE EXTRA PURE

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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)

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RG 66	

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VOC ordinance (ChemVOCFarbV) :

WGK :

□□□□ □□ □□ (ChemVerbotsV) :

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

□□ □□ □□(12. BImSchV)□ □□ □□ □□

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SZW-lijst van kankerverwekkende stoffen :

VANADIUM PENTOXIDE□(□) □□□ □□□□□

SZW-lijst van mutagene stoffen :

□□□ □□

SZW-lijst van reprotoxische stoffen – Borstvoeding :

□□□ □□

SZW-lijst van reprotoxische stoffen – Vruchtbaarheid :

VANADIUM PENTOXIDE□(□) □□□ □□□□□

SZW-lijst van reprotoxische stoffen – Ontwikkeling :

VANADIUM PENTOXIDE□(□) □□□ □□□□□

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18□ □□ □□□ □□ □□□ □□□□□
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15.2. □□ □□ □□□ □□

No chemical safety assessment has been carried out

VANADIUM PENTOXIDE EXTRA PURE

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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
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	□□ □□□

VANADIUM PENTOXIDE EXTRA PURE

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

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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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H302	□□□ □□□.
H332	□□□□ □□□.
H335	□□□ □□□ □□□ □ □□.
H341	□□□□ □□□ □□□ □□□ □□□.
H361d	□□□ □□□ □□□ □□□.
H372	□□□ □□ □□ □□□□ □□□ □□□ □□□.
H411	□□□□ □□□ □□ □□□□□□ □□□.

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