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KvK 32006014

## SAFETY DATA SHEET

#### **Aluminium Oxide**

Page 1/12 according to Regulation (EC) No. 1907/2006 (REACH)

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

## Aluoxyd

#### **Additional information:**

Do not use for private purposes (household).

# 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### **Use of the substance/mixture:**

Industriell

Observe technical data sheet.

#### 1.3. Details of the supplier of the safety data sheet

#### Supplier (manufacturer/importer/only representative/downstream user/distributor):

C.Hecht & Co BV Samsonweg 57

1521 RB Wormerveer, the Netherlands **Telephone:** +31 (0) 75-6475040 **Telefax:** +31 (0) 75-6475041 **E-mail:**info@hecht.nl

Website: www.hecht.nl

#### 1.4. Emergency telephone number

Giftinforamtionszentrum Nord, 24h: +49 (0) 551 /19240

## SECTION 2: Hazards identification

# 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]:

Hazard classes and hazard categories	Hazard statements	Classification procedure
Respiratory or skin sensitisation (Skin Sens. 1)	H317: May cause an allergic skin reaction.	
Germ cell mutagenicity (Muta. 2)	H341: Suspected of causing genetic defects.	
Carcinogenicity (Carc. 1A)	H350i: May cause cancer by inhalation.	
Reproductive toxicity (Repr. 1A)	H360D: May damage the unborn child.	
STOT-repeated exposure (STOT RE 1)	H372: Causes damage to organs through prolonged or repeated exposure.	
Hazardous to the aquatic environment (Aquatic Acute 1)	H400: Very toxic to aquatic life.	
Hazardous to the aquatic environment (Aquatic Chronic 1)	H410: Very toxic to aquatic life with long lasting effects.	

## Classification according to Directive 67/548/EEC or 1999/45/EC:

T, N

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 21-Oct-2014 Print date: 28-Nov-2014

Page 2/12

## Aluoxyd

#### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] **Hazard pictograms:** 





Health hazard

**GHS05** Corrosion

GHS09 Environment

Signal word: Danger

#### Hazard components for labelling:

Contains nickel constituents. SELENATES or SELENITES Copper

hazard statements for health hazards			
H302 + H332	Harmful if swallowed or if inhaled.		
H314	Causes severe skin burns and eye damage.		
H317	May cause an allergic skin reaction.		
H341	Suspected of causing genetic defects.		
H350i	May cause cancer by inhalation.		
H360D	May damage the unborn child.		
H372	Causes damage to organs through prolonged or repeated exposure.		

hazard statements for environmental hazards		
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	

## Supplemental Hazard information (EU): -

Precautionary statements Prevention		
P202	Do not handle until all safety precautions have been read and understood.	
P264.1	Wash hands thoroughly after handling.	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	

Precautionary statements Response		
P308	IF exposed or concerned:	
P308 + P313	IF exposed or concerned: Get medical advice/attention.	
P313	Get medical advice/attention.	

Precautionary statements Storage	
P405	Store locked up.

Precautionary statements Disposal		
P501	Dispose of contents/container to	

## Labelling (67/548/EEC or 1999/45/EC) **Hazard pictograms:**





Т Toxic

Dangerous for the environment

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 21-Oct-2014 Print date: 28-Nov-2014

Page 3/12

# Aluoxyd

Hazard state	Hazard statements		
R20/22	Harmful by inhalation and if swallowed.		
R36/38	Irritating to eyes and skin.		
R42/43	May cause sensitization by inhalation and skin contact.		
R48/23	Toxic: danger of serious damage to health by prolonged exposure through inhalation.		
R49	May cause cancer by inhalation.		
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.		
R61	May cause harm to the unborn child.		
R68	Possible risk of irreversible effects.		

Precautionary statements			
S3/7	Keep container tightly closed in a cool place.		
S20/21	When using do not eat, drink or smoke.		
S23.5	Do not breathe aerosol.		
S27/28.1	After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.		
S36	Wear suitable protective clothing.		
S61	Avoid release to the environment. Refer to special instructions/Safety data sheets.		

#### 2.3. Other hazards

No data available

# **SECTION 3: Composition / information on ingredients**

#### 3.2. Mixtures

## Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to 67/548/EEC Classification according to Regulation (EC) No. 1272/2008 [CLP]	Concentration
CAS No.: 7758-98-7 EC No.: 231-847-6	copper sulphate Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Aquatic Acute 1, Aquatic Chronic 1  Warning H302-H315-H319-H410 Xn; R22 — Xi; R36/38 — N; R50-R53	< 8 %
CAS No.: 7783-00-8 EC No.: 231-974-7	selenious acid Acute Tox. 3, STOT RE 2, Aquatic Acute 1, Aquatic Chronic 1  Danger H410 T, N R23/25, R33, R50/53	< 4 %
CAS No.: 7664-38-2 EC No.: 231-633-2	orthophosphoric acid Skin Corr. 1B  Danger H314  C; R34	< 3 %
CAS No.: 16872-11-0 EC No.: 240-898-3	tetrafluoroboric acid Skin Corr. 1B  Danger H314 C; R34	< 2 %

en / DE

according to Regulation (EC) No. 1907/2006 (REACH)

**Revision date:** 21-Oct-2014 **Print date:** 28-Nov-2014

Page 4/12

## Aluoxyd

Product identifiers	Substance name Classification according to 67/548/EEC Classification according to Regulation (EC) No. 1272/2008 [CLP]	Concentration
CAS No.: 7786-81-4 EC No.: 232-104-9	nickel sulphate Repr. 1B, Acute Tox. 4, Skin Irrit. 2, Resp. Sens. 1, Skin Sens. 1, Muta. 2, Carc. 1A, STOT RE 1, Aquatic Acute 1, Aquatic Chronic 1  Danger H302-H315-H317-H332-H334-H341-H350i-H360D-H372-H410 M-factor: 1	< 1 %
	Carc. Cat. 1; R49 — Muta. Cat. 3; R68 — Repr. Cat. Fruchtb. 2; R61 — T; R48/23 — Xn; R20/22 — Xi; R38 — R42/43 — N; R50-R53	

Full text of R-, H- and EUH-phrases: see section 16.

#### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

#### **General information:**

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

## Following inhalation:

Remove casualty to fresh air and keep warm and at rest. In case of inhaling spray mist, consult a physician. After inhaling vapours, first symptoms of poisoning may develop hours later, so always consult a doctor. Provide fresh air.

#### In case of skin contact:

Wash immediately with: Water Remove contaminated, saturated clothing immediately. In case of skin irritation, consult a physician.

#### After eve contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

#### After ingestion:

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

## Self-protection of the first aider:

First aider: Pay attention to self-protection!

## 4.2. Most important symptoms and effects, both acute and delayed

No data available

# 4.3. Indication of any immediate medical attention and special treatment needed

No data available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

## Suitable extinguishing media:

Co-ordinate fire-fighting measures to the fire surroundings.

#### Unsuitable extinguishing media:

no restriction

#### 5.2. Special hazards arising from the substance or mixture

Non-combustible corrosive substances (liquid)

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 21-Oct-2014 Print date: 28-Nov-2014

Page 5/12

## Aluoxyd

#### 5.3. Advice for firefighters

No data available

#### 5.4. Additional information

No data available

#### SECTION 6: Accidental release measures

## 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

## **Personal precautions:**

Wear protective gloves/protective clothing and eye/face protection.

#### **Protective equipment:**

Material, acid-resistant

#### **6.1.2. For emergency responders**

#### **Personal protection equipment:**

Wear a self-contained breathing apparatus and chemical protective clothing.

## 6.2. Environmental precautions

No data available

## 6.3. Methods and material for containment and cleaning up

#### Other information:

Suitable material for diluting or neutralizing: Lime water

### 6.4. Reference to other sections

No data available

#### 6.5. Additional information

No data available

## **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

#### **Protective measures**

#### Advices on safe handling:

Personal protection equipment: see section 8

#### Fire prevent measures:

Usual measures for fire prevention.

## Measures to prevent aerosol and dust generation:

Do not use for sputtering or spraying.

## 7.2. Conditions for safe storage, including any incompatibilities

No data available

## 7.3. Specific end use(s)

No data available

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 21-Oct-2014 Print date: 28-Nov-2014

Page 6/12

## Aluoxyd

## SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

### 8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	<ol> <li>long-term occupational exposure limit value</li> <li>short-term occupational exposure limit value</li> <li>Instantaneous value</li> <li>Monitoring and observation processes</li> <li>remark</li> </ol>
DFG (DE)	copper sulphate CAS No.: 7758-98-7	<ul> <li>① 0.01 mg/m³</li> <li>② 0.02 mg/m³</li> <li>⑤ (alveolengängige Fraktion)</li> </ul>
IOELV (EU)	orthophosphoric acid CAS No.: 7664-38-2	① 1 mg/m³ ② 2 mg/m³
TRGS 900 (DE)	orthophosphoric acid CAS No.: 7664-38-2	<ul> <li>① 2 mg/m³</li> <li>② 4 mg/m³</li> <li>⑤ (einatembare Fraktion)</li> </ul>

#### 8.1.2. biological limit values

No data available

#### 8.1.3. DNEL-/PNEC-values

No data available

#### 8.2. Exposure controls

## 8.2.1. Appropriate engineering controls

No data available

#### 8.2.2. Personal protection equipment

#### **Eye/face protection:**

goggles, Face protection umbrella

#### Skin protection:

Suitable gloves type: PVC (Polyvinyl chloride) NBR (Nitrile rubber) acid-resistant

## Respiratory protection:

Respiratory protection necessary at: insufficient exhaust, aerosol or mist formation. Suitable respiratory protection apparatus: Particle filter device (DIN EN 143) ABEK-P2

## Other protection measures:

Before starting work, apply water-resistant skincare preparations.

#### 8.2.3. Environmental exposure controls

No data available

#### 8.3. Additional information

No data available

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

#### Appearance

Physical state: liquid Colour: light blue

**Odour:** odourless

according to Regulation (EC) No. 1907/2006 (REACH)

**Revision date:** 21-Oct-2014 **Print date:** 28-Nov-2014

Page 7/12

## Aluoxyd

#### Safety relevant basis data

		at °C	Method	remark
рН	< 1			
Melting point/freezing point	not determined			
Freezing point	not determined			
Initial boiling point and boiling range	≥ 100 °C			
Decomposition temperature (°C):	not determined			
Flash point	not applicable			
Evaporation rate	not applicable			
Ignition temperature in °C	not applicable			
Upper/lower flammability or explosive limits	not applicable			
Vapour pressure	not determined			
Vapour density	not determined			
Density	≈ 1.1 g/cm³	20 °C		
Bulk density	not applicable			
Water solubility (g/L)	completely miscible			
Partition coefficient: n-octanol/ water	not applicable			
Dynamic viscosity	not determined			
Kinematic viscosity	not determined			

#### 9.2. Other information

No data available

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

#### 10.2. Chemical stability

No data available

## 10.3. Possibility of hazardous reactions

Alkali (lye)

#### 10.4. Conditions to avoid

Do not expose to temperatures above 50 °C.

#### 10.5. Incompatible materials

Metal, base

## 10.6. Hazardous decomposition products

No data available

## SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

## Acute oral toxicity:

There are no data available on the preparation/mixture itself.

### Acute dermal toxicity:

There are no data available on the preparation/mixture itself.

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 21-Oct-2014 Print date: 28-Nov-2014

Page 8/12

## Aluoxyd

## Acute inhalation toxicity:

There are no data available on the preparation/mixture itself.

#### **Skin corrosion/irritation:**

There are no data available on the preparation/mixture itself.

#### Eye damage/irritation:

Yes.

#### Respiratory or skin sensitisation:

Yes.

#### Germ cell mutagenicity:

To be regarded to induce heritable mutations in the germ cells of humans.

### **Carcinogenicity:**

Known human carcinogens.

#### **Reproductive toxicity:**

Presumed human reproductive toxicant.

## **STOT-single exposure:**

There are no data available on the preparation/mixture itself.

#### **STOT-repeated exposure:**

There are no data available on the preparation/mixture itself.

#### Aspiration hazard:

There are no data available on the preparation/mixture itself.

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

## **Aquatic toxicity:**

There are no data available on the preparation/mixture itself.

#### **Sediment toxicity:**

Product contains heavy metals. Discharge into the environment must be avoided. Special pretreatment is necessary.

#### Effects in sewage plants:

Product contains heavy metals. Discharge into the environment must be avoided. Special pretreatment is necessary.

#### 12.2. Persistence and degradability

#### **Abiotic degradation:**

Heavy metals

#### 12.3. Bioaccumulative potential

#### **Bioconcentration factor (BCF):**

There are no data available on the preparation/mixture itself.

#### Partition coefficient: n-octanol/water:

not applicable

## **Accumulation / Evaluation:**

There are no data available on the preparation/mixture itself.

## 12.4. Mobility in soil

not determined

#### 12.5. Results of PBT and vPvB assessment

There are no data available on the preparation/mixture itself.

## 12.6. Other adverse effects

There are no data available on the preparation/mixture itself.

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 21-Oct-2014 Print date: 28-Nov-2014

Page 9/12

## Aluoxyd

## **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

Dispose of waste according to applicable legislation.

#### **Waste treatment options**

### **Appropriate disposal / Product:**

Dispose of waste according to applicable legislation.

## Appropriate disposal / Package:

Handle contaminated packages in the same way as the substance itself.

#### 13.2. Additional information

No data available

# **SECTION 14: Transport information**

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA- DGR)
14.1. UN-No.			
3264	3264	3264	3264
14.2. UN proper ship	pping name		
Ätzender saurer ano- rganischer flüssiger Stoff, n.a.g. (Phospho- rsäure-Fluororborsäu- re-Lösung)	Ätzender saurer anorganischer flüssiger Stoff, n.a.g. (Phosphorsäure-Fluororborsäure-Lösung)	Corrosive liquid, acidic, inorganic, n.o.s. (phosphoric-fluoroboracid-mixture)	Corrosive liquid, acidic, inorganic, n.o.s. (phosphoric-fluoroboracid-mixture)
14.3. Transport hazard class(es)			
		<u>se</u>	A. S.
8	8	8	8
14.4. Packing group			
III	III	III	III
14.5. Environmental hazards			
¥2>	¥2>	MARINE POLLUTANT	-

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 21-Oct-2014 Print date: 28-Nov-2014

Page 10/12

## Aluoxyd

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA- DGR)
14.6. Special preca	utions for user		
Special provisions: Limited quantity (LQ): 5 L Hazard identificati- on number (Kemler No.): 80 Classification code: C1	Special provisions: Limited quantity (LQ): Classification code: - remark:	Special provisions: Limited quantity (LQ): 5 L EmS-No.: F-A; S-B remark:	Special provisions: Limited quantity (LQ): remark:
tunnel restriction code: E remark:			

# 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No data available

## SECTION 15: Regulatory information

# 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU legislation

No data available

# 15.1.2. National regulations

## [DE] National regulations

#### **Restrictions of occupation**

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

#### annex Chemikalien-Verbotsverordnung (ChemVerbotsV)

Do not sell or give to persons under the age of 18 years.

#### Technische Regeln für Gefahrstoffe

555

#### Relevante arbeitsmedizinische Vorschriften

Preventive medical check-ups have to be offered to the users of this product.

## 15.2. Chemical Safety Assessment

No data available

#### 15.3. Additional information

No data available

## **SECTION 16: Other information**

## 16.1. Indication of changes

No data available

#### 16.2. Abbreviations and acronyms

No data available

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 21-Oct-2014 Print date: 28-Nov-2014

Page 11/12

# **Aluoxyd**

## 16.3. Key literature references and sources for data

No data available

# 16.4. Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]

## Classification according to Regulation (EC) No. 1272/2008 [CLP]:

Hazard classes and hazard categories	Hazard statements	Classification procedure
Respiratory or skin sensitisation (Skin Sens. 1)	H317: May cause an allergic skin reaction.	
Germ cell mutagenicity (Muta. 2)	H341: Suspected of causing genetic defects.	
Carcinogenicity (Carc. 1A)	H350i: May cause cancer by inhalation.	
Reproductive toxicity (Repr. 1A)	H360D: May damage the unborn child.	
STOT-repeated exposure <i>(STOT RE 1)</i>	H372: Causes damage to organs through prolonged or repeated exposure.	
Hazardous to the aquatic environment (Aquatic Acute 1)	H400: Very toxic to aquatic life.	
Hazardous to the aquatic environment (Aquatic Chronic 1)	H410: Very toxic to aquatic life with long lasting effects.	

## 16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard state	ments (R-phrases)
R20/22	Harmful by inhalation and if swallowed.
R22	Harmful if swallowed.
R23/25	Toxic by inhalation and if swallowed.
R33	Danger of cumulative effects.
R34	Causes burns.
R36/38	Irritating to eyes and skin.
R38	Irritating to skin.
R42/43	May cause sensitization by inhalation and skin contact.
R48/23	Toxic: danger of serious damage to health by prolonged exposure through inhalation.
R49	May cause cancer by inhalation.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R61	May cause harm to the unborn child.
R68	Possible risk of irreversible effects.

Hazard statements		
H301	Toxic if swallowed.	
H302	Harmful if swallowed.	
H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H319	Causes serious eye irritation.	
H331	Toxic if inhaled.	
H332	Harmful if inhaled.	
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
H341	Suspected of causing genetic defects.	
H350i	May cause cancer by inhalation.	

according to Regulation (EC) No. 1907/2006 (REACH)

**Revision date:** 21-Oct-2014 **Print date:** 28-Nov-2014

Page 12/12

# Aluoxyd

Hazard statements		
H360D	May damage the unborn child.	
H372	Causes damage to organs through prolonged or repeated exposure.	
H373	May cause damage to organs through prolonged or repeated exposure.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	

## **16.6. Training advice**

No data available

## 16.7. Additional information

No data available