

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

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Version: 3



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## Alumex 25I

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

#### 1.1. Product identifier

Trade name/designation:

**Alumex 25I**

Article No.:

X119025

UFI:

XCT9-3YXW-1P0E-JRFN

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

Use of the substance/mixture:

Cleaning agent

Relevant identified uses:

Product Categories [PC]

PC 35: Washing and cleaning products

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

Supplier:

**KANDO Service GmbH**

Hartleitnerstraße 3

4653 Eberstalzell

Austria

Telephone: +43 (0) 7241 213 79

E-mail: msds@kando.eu

#### 1.4. Emergency telephone number

Vergiftungsinformationszentrale (VIZ), Stubenring 6, 1010 Wien, 24h: 01 406 43 43, Montag - Freitag: 8 bis 16 Uhr, Tel.: 01 406 68 98 (keine medizinische Auskunft) (Only available during office hours.)

### 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
Skin corrosion/irritation ( <i>Skin Corr. 1A</i> )	H314: Causes severe skin burns and eye damage.	
Serious eye damage/eye irritation ( <i>Eye Dam. 1</i> )	H318: Causes serious eye damage.	

#### 2.2. Label elements

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

Hazard pictograms:



**GHS05**

Corrosion

Signal word: Danger

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### Hazard components for labelling:

Sulphuric acid; ammonium hydrogendifluoride

#### Hazard statements for health hazards

H314 Causes severe skin burns and eye damage.

#### Precautionary statements Prevention

P280 Wear protective gloves/protective clothing and eye protection/face protection.

#### Precautionary statements Response

P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER.

#### Precautionary statements Storage

P405 Store locked up.

#### Precautionary statements Disposal

P501 Dispose of contents/container to an appropriate recycling or disposal facility.

### 2.3. Other hazards

#### Other adverse effects:

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Description:

Cleaning agent

#### Additional information:

Nonionic surfactants: < 5%

#### Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 7664-93-9 EC No.: 231-639-5 REACH No.: 01-2119458838-20	<b>Sulphuric acid</b> Eye Dam. 1 (H318), Met. Corr. 1 (H290), Skin Corr. 1A (H314) ⚠ Danger <b>Acute Toxicity Estimate</b> ATE (oral) 2,140 mg/kg ATE (inhalation, dust/mist) 375 mg/L	25 - < 50 Vol-%
CAS No.: 1341-49-7 EC No.: 215-676-4	<b>ammonium hydrogendifluoride</b> Acute Tox. 3 (H301), Skin Corr. 1B (H314) ⚠⚠ Danger <b>Acute Toxicity Estimate</b> ATE (oral) 130 mg/kg	2.5 - < 10 Vol-%
CAS No.: 12125-01-8 EC No.: 235-185-9	<b>ammonium fluoride</b> Acute Tox. 3 (H301, H311, H331) ⚠ Danger <b>Acute Toxicity Estimate</b> ATE (oral) 100 mg/kg ATE (dermal) 300 mg/kg ATE (inhalation, vapour) 3 mg/L ATE (inhalation, dust/mist) 0.5 mg/L	< 2 Vol-%

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

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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information:

Immediately remove any contaminated clothing, shoes or stockings.

Symptoms of poisoning may not appear for many hours, therefore medical monitoring for at least 48 hours after an accident.

##### Following inhalation:

Fresh air supply, consult a doctor in case of complaints.

If unconscious, position and transport in stable lateral position.

##### In case of skin contact:

Wash with plenty of water and soap.

##### After eye contact:

Rinse opened eye for several minutes under running water. Consult a doctor if symptoms persist

##### Following ingestion:

Call a physician immediately. Drink plenty of water. Provide fresh air.

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

No further relevant information available.

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

No further relevant information available.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media:

Water

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

No further relevant information available.

#### 5.3. Advice for firefighters

Special protective equipment for firefighters: No special measures are necessary.

### 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 equipment. Keep unprotected persons away. Provide adequate ventilation.

##### 6.1.2. For emergency responders

No data available

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. In case of spillage into water or sewage system, inform the competent authorities.

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

##### For cleaning up:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

##### Other information:

Provide adequate ventilation. Dispose of contaminated material as waste according to section 13.

#### 6.4. Reference to other sections

Further information on proper storage: see section 7.

For further information on personal protective equipment: see section 8.

For further information on disposal: see section 13.

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

##### Protective measures

##### Advices on safe handling:

When diluting/dissolving, always have the water ready first, then slowly stir in the product.  
Avoid spilling or spraying in enclosed spaces.  
Ensure good ventilation/extraction at the workplace.  
Avoid aerosol formation.

##### Fire prevent measures:

Do not spray on naked flames or any incandescent material. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Container is under pressure. Protect from sunlight and temperatures above 50°C (e.g. from incandescent lamps). Do not open by force or burn even after use.

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

##### Requirements for storage rooms and vessels:

Keep/Store only in original container.

##### Hints on storage assembly:

Not required.

##### Further information on storage conditions:

Keep locked up. Store in a well-ventilated place. Keep container tightly closed. Protect from frost.

#### 7.3. Specific end use(s)

##### Recommendation:

No further relevant information available.

### 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	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
IOELV (EU)	<b>Sulphuric acid</b> CAS No.: 7664-93-9 EC No.: 231-639-5	① 0.05 mg/m <sup>3</sup>
MAK (AT) from 25 Sept 2018	<b>Sulphuric acid</b> CAS No.: 7664-93-9 EC No.: 231-639-5	① 0.1 mg/m <sup>3</sup> ⑤ (einatembare Fraktion)
MAK (AT) from 25 Sept 2018	<b>Sulphuric acid</b> CAS No.: 7664-93-9 EC No.: 231-639-5	② 0.2 mg/m <sup>3</sup> ⑤ (einatembare Fraktion max. 8x5 min./Schicht, Momentanwert)
MAK (AT)	<b>ammonium hydrogendifluoride</b> CAS No.: 1341-49-7 EC No.: 215-676-4	① 2.5 mg/m <sup>3</sup> ⑤ (Fluoride, berechnet als F; einatembare Fraktion)
MAK (AT) from 2 Sept 2020	<b>ammonium hydrogendifluoride</b> CAS No.: 1341-49-7 EC No.: 215-676-4	② 12.5 mg/m <sup>3</sup> ⑤ (max. 2x30 min./Schicht, einatembare Fraktion)
IOELV (EU)	<b>ammonium hydrogendifluoride</b> CAS No.: 1341-49-7 EC No.: 215-676-4	① 2.5 mg/m <sup>3</sup> ⑤ (Fluorides, inorganic)

##### 8.1.2. Biological limit values

No data available

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### 8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
<b>Sulphuric acid</b> CAS No.: 7664-93-9 EC No.: 231-639-5	0.05 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, local effects
<b>Sulphuric acid</b> CAS No.: 7664-93-9 EC No.: 231-639-5	0.1 mg/m <sup>3</sup>	① DNEL worker ② Acute - inhalation, local effects

Substance name	PNEC Value	① PNEC type
<b>Sulphuric acid</b> CAS No.: 7664-93-9 EC No.: 231-639-5	0.03 mg/L	① PNEC aquatic, freshwater
<b>Sulphuric acid</b> CAS No.: 7664-93-9 EC No.: 231-639-5	0.002 mg/kg	① PNEC sediment, freshwater
<b>Sulphuric acid</b> CAS No.: 7664-93-9 EC No.: 231-639-5	0.002 mg/kg	① PNEC sediment, marine water
<b>Sulphuric acid</b> CAS No.: 7664-93-9 EC No.: 231-639-5	8.8 mg/L	① PNEC secondary poisoning

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

No further details. See section 7.

#### 8.2.2. Personal protection equipment



##### Eye/face protection:

Safety goggles with side shields (EN 166).

##### Skin protection:

Hand protection:

Wear protective gloves.

The glove material must be impermeable and resistant to the product / substance / preparation.

Selection of the glove material considering the breakthrough times, permeation rates and degradation.

Glove material:

The selection of a suitable glove depends not only on the material but also on other quality features and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of glove materials cannot be calculated in advance and must therefore be checked before use. NBR (Nitrile rubber)

Recommended material thickness:  $\geq 0,5$  mm

Permeation time (maximum wear duration): 240 min.

##### Respiratory protection:

In case of short or low exposure use breathing filter apparatus; in case of intensive or prolonged exposure use self-contained breathing apparatus.

##### Other protection measures:

General protective and hygienic measures: Remove contaminated, saturated clothing immediately. Keep away from food, drink and animal feed. Wash hands before breaks and after work. Avoid contact with eyes and skin.

#### 8.2.3. Environmental exposure controls

Use a suitable container to prevent environmental pollution.

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### SECTION 9: Physical and chemical properties

#### \* 9.1. Information on basic physical and chemical properties

##### Appearance

**Physical state:** Liquid

**Colour:** red

**Odour:** characteristic

**flammability:** No data available

**Odour threshold:** not determined

##### Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	2.5	20 °C	
Melting point	No data available		
Freezing point	No data available		
Initial boiling point and boiling range	100 °C		
Flash point	not applicable		
Evaporation rate	No data available		
Auto-ignition temperature	No data available		
Upper/lower flammability or explosive limits	No data available		
Vapour pressure	23 hPa	20 °C	
Vapour density	No data available		
Density	1.15 g/cm <sup>3</sup>	20 °C	
Bulk density	not applicable		
Water solubility	completely miscible		
Dynamic viscosity	No data available		
Kinematic viscosity	No data available		

#### \* 9.2. Other information

The product is not self-igniting. The product is not explosive.

##### 9.2.1. Information with regard to physical hazard classes

###### Explosives:

Not applicable

###### Flammable gases:

Not applicable

###### Aerosols:

Not applicable

###### Oxidizing gases:

Not applicable

###### Gases under pressure:

Not applicable

###### Flammable liquids:

Not applicable

###### Flammable solids:

Not applicable

###### Self-reactive substances and mixtures:

Not applicable

###### Pyrophoric liquids:

Not applicable

###### Pyrophoric solids:

Not applicable

###### Self-heating substances and mixtures:

Not applicable

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### Substances or mixtures which, in contact with water, emit flammable gases:

Not applicable

### Oxidizing liquids:

Not applicable

### Oxidizing solids:

Not applicable

### Organic peroxides:

Not applicable

### Corrosive to metals:

Not applicable

### Desensitised explosives:

Not applicable

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No further relevant information available.

### 10.2. Chemical stability

Thermal decomposition / Conditions to avoid: No decomposition when used as directed.

### 10.3. Possibility of hazardous reactions

Corrosive to metals.

When diluting/dissolving, always have the water ready first, then slowly stir in the product.

### 10.4. Conditions to avoid

Do not use as a spray or mist if there is no fresh air or ventilation. For example, in a tank or silo or in other enclosed spaces.

### 10.5. Incompatible materials

No further relevant information available.

### 10.6. Hazardous decomposition products

No dangerous decomposition products known.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

<b>Sulphuric acid</b> CAS No.: 7664-93-9 EC No.: 231-639-5
<b>LD<sub>50</sub> oral:</b> 2,140 mg/kg (Ratte)
<b>LC<sub>50</sub> Acute inhalation toxicity (dust/mist):</b> 375 mg/L 4 h (Ratte)
<b>ammonium hydrogendifluoride</b> CAS No.: 1341-49-7 EC No.: 215-676-4
<b>LD<sub>50</sub> oral:</b> 130 mg/kg (Rat)

#### Acute oral toxicity:

Based on available data, the classification criteria are not met.

#### Acute dermal toxicity:

Based on available data, the classification criteria are not met.

#### Acute inhalation toxicity:

Based on available data, the classification criteria are not met.

#### Skin corrosion/irritation:

Causes severe skin burns and eye damage.

#### Serious eye damage/irritation:

Causes serious eye damage.

#### Respiratory or skin sensitisation:

Based on available data, the classification criteria are not met.

#### Germ cell mutagenicity:

Based on available data, the classification criteria are not met.

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### Carcinogenicity:

Based on available data, the classification criteria are not met.

### Reproductive toxicity:

Based on available data, the classification criteria are not met.

### STOT-single exposure:

Based on available data, the classification criteria are not met.

### STOT-repeated exposure:

Based on available data, the classification criteria are not met.

### Aspiration hazard:

Based on available data, the classification criteria are not met.

## 11.2. Information on other hazards

### Endocrine disrupting properties:

None of the ingredients are included.

## SECTION 12: Ecological information

### 12.1. Toxicity

<b>Sulphuric acid</b> CAS No.: 7664-93-9 EC No.: 231-639-5
LC <sub>50</sub> : >16 mg/L 4 d (fish)
EC <sub>50</sub> : >100 mg/L 2 d (crustaceans, Daphnia magna)
EC <sub>50</sub> : >100 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus)
NOEC: 0.31 mg/L (fish, Salvelinus fontinalis)
NOEC: 0.15 mg/L (crustaceans)
<b>ammonium hydrogendifluoride</b> CAS No.: 1341-49-7 EC No.: 215-676-4
LC <sub>50</sub> : 51 mg/L 4 d (fish, Salmo gairdneri)
EC <sub>50</sub> : 43 mg/L 4 d (Algae/water plant, Scenedesmus subspicatus)

### Aquatic toxicity:

No further relevant information available.

### Assessment/classification:

No further relevant information available.

## 12.2. Persistence and degradability

### Additional information:

No further relevant information available.

## 12.3. Bioaccumulative potential

### Accumulation / Evaluation:

No further relevant information available.

## 12.4. Mobility in soil

No further relevant information available.

## 12.5. Results of PBT and vPvB assessment

<b>Sulphuric acid</b> CAS No.: 7664-93-9 EC No.: 231-639-5
Results of PBT and vPvB assessment: —
<b>ammonium hydrogendifluoride</b> CAS No.: 1341-49-7 EC No.: 215-676-4
Results of PBT and vPvB assessment: —

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

## 12.6. Endocrine disrupting properties

The product does not contain any substances with endocrine-disrupting properties.

## 12.7. Other adverse effects

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

Drinking water hazard even when small quantities leak into the subsoil.

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods





Must not be disposed of together with household waste. Do not allow to enter into surface water or drains.

#### Waste treatment options

##### Appropriate disposal / Package:

Uncleaned packaging: Dispose of waste according to applicable legislation.

### SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.1. UN number or ID number</b>			
UN 3265	UN 3265	UN 3265	UN 3265
<b>14.2. UN proper shipping name</b>			
CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (ammonium hydrogendifluoride, sulphuric acid)	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (ammonium hydrogendifluoride, sulphuric acid)	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (AMMONIUM HYDROGENDIFLUORIDE, SULPHURIC ACID)	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (AMMONIUM HYDROGENDIFLUORIDE, SULPHURIC ACID)
<b>14.3. Transport hazard class(es)</b>			
 8	 8	 8	 8
<b>14.4. Packing group</b>			
II	II	II	II
<b>14.5. Environmental hazards</b>			
No	No	No	No
<b>14.6. Special precautions for user</b>			
<b>Special Provisions:</b> 274 <b>Limited quantity (LQ):</b> 1 L <b>Excepted Quantities (EQ):</b> E2 <b>Hazard identification number (Kemler No.):</b> 80 <b>Classification code:</b> C3 <b>Tunnel restriction code:</b> (E)	<b>Special Provisions:</b> 274 <b>Limited quantity (LQ):</b> 1 L <b>Excepted Quantities (EQ):</b> E2 <b>Classification code:</b> C3	<b>Special Provisions:</b> 274 <b>Limited quantity (LQ):</b> 1 L <b>Excepted Quantities (EQ):</b> E2 <b>EmS-No.:</b> F-A, S-B <b>Remark:</b> Maximum net quantity per inner packaging: 30ml Maximum net quantity per outer packaging: 500ml	<b>Special Provisions:</b> A3 <b>Limited quantity (LQ):</b> Y840 <b>Excepted Quantities (EQ):</b> E2

#### 14.7. Maritime transport in bulk according to IMO instruments

not applicable

### SECTION 15: Regulatory information

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

##### 15.1.1. EU legislation

###### Authorisations:

Directive 2012/18/EU

Named dangerous substances - ANNEX I: None of the ingredients are included.

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### Restrictions on use:

Regulation (EC) No 1907/2006 ANNEX XVII: Restriction conditions: 3, 65

### 15.1.2. National regulations

No data available

### 15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out.

## SECTION 16: Other information

### \* 16.1. Indication of changes

3.2.	Mixtures
8.1.	Control parameters
9.1.	Information on basic physical and chemical properties
9.2.	Other information
14.3.	Transport hazard class(es)
16.1.	Indication of changes
16.2.	Abbreviations and acronyms

### \* 16.2. Abbreviations and acronyms

ACGIH	American Conference of Governmental 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
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DNEL	derived no-effect level
EC <sub>50</sub>	Effective Concentration 50%
EN	European Standard
ES	Exposure scenario
EWC	European Waste Catalogue
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
KG	body weight
LC <sub>50</sub>	Lethal (fatal) Concentration 50%
LD <sub>50</sub>	Lethal (fatal) Dose 50%
MAK	Maximum concentration in the workplace air (CH)
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety & Health
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Cooperation and Development
OSHA	Occupational Safety & Health Administration
PBT	persistent and bioaccumulative and toxic
PC	Product category
PNEC	Predicted No Effect Concentration
QSAR	Quantitative Structure-Activity Relationship
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations
VOC	Volatile organic compounds
ZNS	central nervous system

### 16.3. Key literature references and sources for data

No data available

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### 16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation ( <i>Skin Corr. 1A</i> )	H314: Causes severe skin burns and eye damage.	
Serious eye damage/eye irritation ( <i>Eye Dam. 1</i> )	H318: Causes serious eye damage.	

### 16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	
H290	May be corrosive to metals.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H331	Toxic if inhaled.

### 16.6. Training advice

No data available

### 16.7. Additional information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-mentioned supplier nor its subsidiaries assume any liability with regard to the correctness or completeness of the information provided. A final determination of the suitability of individual materials is the sole responsibility of the user. All materials may involve unknown risks and should be used with caution. While certain risks are described herein, we cannot guarantee that these are the only possible risks.

\* Data changed compared with the previous version.