

**Safety Data Sheet**

according to 29 CFR 1910.1200(g)

**Alumina suspension**

Revision date: 09.12.2025

Product code: epos1000067

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**1. Identification****Product identifier**

Alumina suspension

**Further trade names**

Aluminiumoxid-Suspension / Alumina suspension

order number 92002533 - 1 ml 0,3 µ

order number 92002532 - 1 ml 0,6 µ

order number 92004950 - 1 ml 1,0 µ

**Recommended use of the chemical and restrictions on use****Use of the substance/mixture**

Abrasive

Restricted to professional users.

**Details of the supplier of the safety data sheet****Manufacturer**

Company name: ATM Qness GmbH  
Street: Emil-Reinert-Straße 2  
Place: D-57636 Mammelzen  
Telephone: +49 (0) 2681 95390  
E-mail: info@qatm.com  
Contact person: info@qatm.com

**Importer/Only Representative**

Company name: Verder Scientific Inc.  
Street: 11 Penns Trail  
Place: USA Newtown, PA 18940  
Telephone: +1 866-473-8724  
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**Emergency phone number:**

Global Access Code: 333498 (Europe: +44 20 35147487 / Americas: +1 866 519 4752 / Middle East/Africa: +1 760 476 3959 / Asia/Pacific: +1 760 476 3960)

**2. Hazard(s) identification****Classification of the chemical****29 CFR Part 1910.1200**

This mixture is not classified as hazardous in accordance with Regulation 29 CFR 1910.1200(d).

**Label elements****Additional advice on labelling**

GHS label elements, including precautionary statements: none

**Hazards not otherwise classified**

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

**3. Composition/information on ingredients****Mixtures****Relevant ingredients**

none (according to 29 CFR 1910.1200(g))

**4. First-aid measures**

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**Description of first aid measures****General information**

When in doubt or if symptoms are observed, get medical advice.

**After inhalation**

Provide fresh air. If experiencing respiratory symptoms: Call a doctor.

**After contact with skin**

Take off contaminated clothing and wash it before reuse. After contact with skin, wash immediately with plenty of water and soap. If skin irritation occurs: Get medical help.

**After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. Do not subject to friction. In case of eye irritation consult an ophthalmologist.

**After ingestion**

Rinse mouth immediately and drink 1 glass of water. Observe risk of aspiration if vomiting occurs. Never give anything by mouth to an unconscious person or a person with cramps. Get medical help if you feel unwell.

**Most important symptoms and effects, both acute and delayed**

No information available.

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**5. Fire-fighting measures****Extinguishing media****Suitable extinguishing media**

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

**Specific hazards arising from the chemical**

Non-flammable.

In case of fire may be liberated: Carbon dioxide (CO<sub>2</sub>), Carbon monoxide, Pyrolysis products, toxic

**Special protective equipment and precautions for fire-fighters**

In case of fire: Wear self-contained breathing apparatus. Full protection suit.

**Additional information**

Knock down dust with water spray jet. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures****General advice**

Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin, eyes and clothes. Evacuate area.

**For non-emergency personnel**

Provide adequate ventilation. Use personal protection equipment.

**For emergency responders**

Wear personal protection equipment (refer to section 8).

**Environmental precautions**

Do not allow to enter into surface water or drains.

**Methods and material for containment and cleaning up****For containment**

Stop leak if safe to do so. Cover drains.

**For cleaning up**

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

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recovered material as prescribed in the section on waste disposal.

#### Other information

Clean contaminated articles and floor according to the environmental legislation.

#### Reference to other sections

Safe handling: see section 7

Personal protection equipment (PPE): see section 8

Disposal: see section 13

## 7. Handling and storage

### Precautions for safe handling

#### Advice on safe handling

Provide adequate ventilation. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin, eyes and clothes.

Use personal protection equipment.

#### Advice on protection against fire and explosion

Usual measures for fire prevention.

#### Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff.

### Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed.

#### Hints on joint storage

Do not store together with: Food and feedingstuffs

#### Further information on storage conditions

Keep away from heat.

## 8. Exposure controls/personal protection

### Control parameters

#### Exposure limits

| CAS No    | Substance   | ppm                        | mg/m <sup>3</sup> | Category  | Origin     |
|-----------|---|----------------------------|-------------------|-----------|------------|
| 1344-28-1 | alpha-Alumina Respirable fraction   | -                          | 5                 | TWA (8 h) | PEL        |
| 1344-28-1 | alpha-Alumina Total dust  | -                          | 15                | TWA (8 h) | PEL        |
| 56-81-5   | Glycerin (mist) Respirable fraction   | -                          | 5                 | TWA (8 h) | PEL        |
| -         | Particles (insoluble or poorly soluble) not otherwise specified (inhalable fraction)  | -                          | 10                | TWA (8 h) | ACGIH-2025 |
| -         | Particles (insoluble or poorly soluble) not otherwise specified (respirable fraction) | -                          | 3                 | TWA (8 h) | ACGIH-2025 |
| -         | Particulates not Otherwise regulated (PNOR) Respirable fraction                       | 529.5<br>mp/m <sup>3</sup> | 5                 | TWA (8 h) | PEL        |
| -         | Particulates not Otherwise regulated (PNOR) Total dust                                | 1765<br>mp/m <sup>3</sup>  | 15                | TWA (8 h) | PEL        |

### Exposure controls

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#### Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations.

#### Individual protection measures, such as personal protective equipment

##### Eye/face protection

Tightly sealed safety glasses. EN ISO 16321 (EN 166).

##### Hand protection

Wear suitable gloves. (EN ISO 374)

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

##### Skin protection

Wear suitable protective clothing.

##### Respiratory protection

Respiratory protection necessary at: insufficient ventilation, exceeding exposure limit values.

##### Thermal hazards

No information available.

##### Environmental exposure controls

Avoid release to the environment.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

|   |                |                |
|---|----------------|----------------|
| Physical state:   | Liquid         |                |
| Color:  | white          |                |
| Odor:   | characteristic |                |
| Odour threshold:  | not determined |                |
| Melting point/freezing point:                             |                | not determined |
| Boiling point or initial boiling point and boiling range: |                | 104 °C         |
| Flammability:   |                | Non-flammable. |
| Lower explosion limits:                                   |                | not determined |
| Upper explosion limits:                                   |                | not determined |
| Flash point:  |                | not applicable |
| Auto-ignition temperature:                                |                | not determined |
| Decomposition temperature:                                |                | not determined |
| pH-Value:   |                | 7 - 10         |
| Viscosity / kinematic:                                    |                | not applicable |
| Water solubility:   |                | not determined |
| Solubility in other solvents                              |                |                |
| not determined  |                |                |
| Partition coefficient n-octanol/water:                    |                | not determined |
| Vapor pressure:   |                | not determined |
| Density:  |                | not determined |
| Relative density:   |                | 1,2            |

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Relative vapour density:

not determined

Particle characteristics:

not determined

**Other information**

No information available.

**10. Stability and reactivity****Reactivity**

No hazardous reaction when handled and stored according to provisions.

**Chemical stability**

Stability: Stable

The product is stable under storage at normal ambient temperatures.

**Possibility of hazardous reactions**

Hazardous reactions: Will not occur

No information available.

**Conditions to avoid**

Heat

**Incompatible materials**

No information available.

**Hazardous decomposition products**In case of fire may be liberated: Carbon dioxide (CO<sub>2</sub>), Carbon monoxide, Pyrolysis products, toxic**11. Toxicological information****Route(s) of Entry**

oral, Skin contact, Eye contact.

Inhalation: aerosol or mist formation / particulates and dust

**Information on toxicological effects****Acute toxicity**

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

**ATEmix calculated**

ATE (oral) &gt; 2000 mg/kg; ATE (dermal) &gt; 2000 mg/kg; ATE (inhalation vapour) &gt; 20 mg/l; ATE (inhalation dust/mist) &gt; 5 mg/l

**Irritation and corrosivity**

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

**Sensitizing effects**

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

**Carcinogenic/mutagenic/toxic effects for reproduction**

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

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

**Specific target organ toxicity (STOT) - single exposure**

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

**Specific target organ toxicity (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.

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#### Information on other hazards

##### **Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

##### **Other information**

No information available.

### 12. Ecological information

#### Ecotoxicity

The product is not: Ecotoxic.

#### Persistence and degradability

The product has not been tested.

#### Bioaccumulative potential

The product has not been tested.

#### Mobility in soil

The product has not been tested.

#### Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

#### Other adverse effects

No information available.

#### **Further information**

Avoid release to the environment.

### 13. Disposal considerations

#### Waste treatment methods

##### **Disposal recommendations**

Collect the waste separately. Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

##### **Contaminated packaging**

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

### 14. Transport information

#### **U.S. DOT 49 CFR 172.101**

##### Proper shipping name:

No dangerous good in sense of this transport regulation.

#### **Marine transport (IMDG)**

##### UN number or ID number:

No dangerous good in sense of this transport regulation.

##### UN proper shipping name:

No dangerous good in sense of this transport regulation.

##### Transport hazard class(es):

No dangerous good in sense of this transport regulation.

##### Packing group:

No dangerous good in sense of this transport regulation.

#### **Air transport (ICAO-TI/IATA-DGR)**

##### UN number or ID number:

No dangerous good in sense of this transport regulation.

##### UN proper shipping name:

No dangerous good in sense of this transport regulation.

##### Transport hazard class(es):

No dangerous good in sense of this transport regulation.

##### Packing group:

No dangerous good in sense of this transport regulation.

#### Environmental hazards

ENVIRONMENTALLY HAZARDOUS:

No

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**Special precautions for user**

No information available.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

not applicable

**15. Regulatory information****U.S. Regulations****National Inventory TSCA**

All ingredients of the mixture are public/active listed or exempted.

**National regulatory information**

SARA Section 313 Toxic release inventory:

Aluminum oxide (fibrous forms) (1344-28-1): De minimis limit = 1.0 %, Reportable threshold = Standard

**State Regulations****Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)**

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

**16. Other information**

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**Abbreviations and acronyms**

CAS: Chemical Abstracts Service  
CFR: Code of Federal Regulations  
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals  
OSHA: Occupational Safety and Health Administration  
UN: United Nations  
ACGIH: American Conference of Governmental Industrial Hygienists  
ATE: Acute Toxicity Estimates  
BCF: Bio-Concentration Factor  
PEL: Permissible Exposure Limit  
REL: Recommended Exposure Limit  
STEL: Short-Term Exposure Limit  
TWA: Time Weighted Average  
VOC: Volatile Organic Compounds  
DIN: Deutsches Institut für Normung e.V. (German Institute for Standardization)  
EN: European Standard  
ISO: International Organization for Standardization  
IUCLID: International Uniform Chemical Information Database  
LC50: Lethal Concentration, 50 %  
LD50: Lethal Dose, 50 %  
LL50: Lethal Loading, 50 %  
OECD: Organisation for Economic Co-operation and Development  
EC50: Effective Concentration 50 %  
EL50: Effect Loading, 50 %  
ErC50: Effective Concentration 50 %, growth rate  
NOEC: No Observed Effect Concentration  
DGR: Dangerous Goods Regulations  
DOT: Department Of Transportation  
EmS: Emergency Schedules  
IATA: International Air Transport Association  
IBC: Intermediate Bulk Container  
ICAO: International Civil Aviation Organization  
IE: Industrial Emissions  
IMDG: International Maritime Code for Dangerous Goods  
LQ: Limited Quantity  
MARPOL: International Convention for the Prevention of Marine Pollution from Ships  
TI: Technical Instructions  
IARC: International Agency for Research on Cancer  
NFPA: National Fire Protection Association  
NTP: National Toxicology Program  
SARA: Superfund Amendments and Reauthorization Act  
TSCA: Toxic Substances Control Act

**Key literature references and sources for data**

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations). (v.1.2, 2013)

**Other data**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

Observe in addition any national regulations!



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*(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*