

Safety Data Sheet

according to 29 CFR 1910.1200(g)

Alumina suspension

Revision date: 12/9/2025

Page 1 of 7

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
E-mail: info-us@verder-scientific.com

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

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.

Safety Data Sheet

according to 29 CFR 1910.1200(g)

Alumina suspension

Revision date: 12/9/2025

Page 2 of 7

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 (CO₂), 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 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

Safety Data Sheet

according to 29 CFR 1910.1200(g)

Alumina suspension

Revision date: 12/9/2025

Page 3 of 7

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 ³		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 mp/m ³	5		TWA (8 h)	PEL
-	Particulates not Otherwise regulated (PNOR) Total dust	1765 mp/m ³	15		TWA (8 h)	PEL

Exposure controls



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

Safety Data Sheet

according to 29 CFR 1910.1200(g)

Alumina suspension

Revision date: 12/9/2025

Page 4 of 7

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
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

Safety Data Sheet

according to 29 CFR 1910.1200(g)

Alumina suspension

Revision date: 12/9/2025

Page 5 of 7

No information available.

Conditions to avoid

Heat

Incompatible materials

No information available.

Hazardous decomposition productsIn case of fire may be liberated: Carbon dioxide (CO₂), 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) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 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.

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.

Safety Data Sheet

according to 29 CFR 1910.1200(g)

Alumina suspension

Revision date: 12/9/2025

Page 6 of 7

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

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.

Safety Data Sheet

according to 29 CFR 1910.1200(g)

Alumina suspension

Revision date: 12/9/2025

Page 7 of 7

16. Other information

Revision date: 12/9/2025

Revision No: 1.2

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
IUCID: 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!

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