

Safety Data Sheet

according to 29 CFR 1910.1200(g)

ATM-PreClean

Revision date: 12/9/2025

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1. Identification

Product identifier

ATM-PreClean

Further trade names

ATM-PreClean

order number 92006502 - 250 ml

Recommended use of the chemical and restrictions on use

Use of the substance/mixture

Cleaning agent

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

Skin corrosion/irritation: Category 1

Serious eye damage/eye irritation: Category 1

Label elements

29 CFR Part 1910.1200

Signal word: Danger**Pictograms:**

Hazard statements

Causes severe skin burns and eye damage

Precautionary statements

Do not breathe dust/fume/gas/mist/vapors/spray.

Wash hands thoroughly after handling.

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

If swallowed: Rinse mouth. Do NOT induce vomiting.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

Wash contaminated clothing before reuse.

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Precautionary statements

If inhaled: Remove person to fresh air and keep comfortable for breathing.
Immediately call a poison center/doctor.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Store locked up.
Dispose of waste according to applicable legislation.

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

CAS No	Components	Quantity
105-59-9	2,2'-(methylimino)diethanol; N-methyldiethanolamine	10 - < 25 %
497-19-8	sodium carbonate	5 - < 10 %
1310-58-3	potassium hydroxide; caustic potash	3 - < 5 %

Further Information

The exact percentage (concentration) of composition has been withheld as a trade secret.

4. First-aid measures

Description of first aid measures

General information

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

After inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. 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

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion

Rinse mouth. Do NOT induce vomiting. Observe risk of aspiration if vomiting occurs. Never give anything by mouth to an unconscious person or a person with cramps. Call a physician immediately.

Most important symptoms and effects, both acute and delayed

Gastric perforation

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

alcohol resistant foam, Extinguishing powder, Carbon dioxide (CO₂), Water spray jet
Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

Full water jet

Specific hazards arising from the chemical

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Non-flammable.

In case of fire may be liberated: Carbon monoxide, Carbon dioxide, Nitrogen oxides (NO_x), 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

Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

General advice

Do not breathe gas/fume/vapor/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

7. Handling and storage

Precautions for safe handling

Advice on safe handling

Provide adequate ventilation. Do not breathe gas/fume/vapor/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. Store in a well-ventilated place. Keep cool. Keep/Store only in original container.

Hints on joint storage

Do not store together with: Strong acid, strong base, Oxidizing agent

Further information on storage conditions

Keep away from heat.

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storage temperature: 5 - 35 °C

8. Exposure controls/personal protection

Control parameters

Exposure limits

CAS No	Substance	ppm	mg/m ³	Category	Origin
		-	C 2	Ceiling	REL
			2	Peak	ACGIH-2025

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)

Suitable material: NBR (Nitrile rubber), CR (polychloroprene, chloroprene rubber), PVC (polyvinyl chloride)
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:	colorless
Odor:	characteristic
Odour threshold:	not determined

Test method

Melting point/freezing point:	not determined	
Boiling point or initial boiling point and boiling range:	> 100 °C	EN ISO 3405
Flammability:	Non-flammable.	
Lower explosion limits:	not determined	
Upper explosion limits:	not determined	
Flash point:	not applicable	
Auto-ignition temperature:	not determined	

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Decomposition temperature:	not determined	
pH-Value (at 20 °C):	11,6 (0,5 %)	DIN 51369
Viscosity / kinematic (at 20 °C):	3 mm ² /s	DIN 51562/1
Water solubility:	easily soluble	
Solubility in other solvents		
not determined		
Partition coefficient n-octanol/water:	not determined	
Vapor pressure:	not determined	
Density (at 20 °C):	1,124 g/cm ³	DIN 51757
Relative vapour density:	not determined	
Particle characteristics:	not applicable	

Other information**Other safety characteristics**

Pour point: <= -7 °C

Further 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: May occur

Exothermic reaction with: Strong acid, strong base, Oxidizing agent

Conditions to avoid

Heat

Incompatible materials

Strong acid, strong base, Oxidizing agent

Hazardous decomposition productsIn case of fire may be liberated: Carbon dioxide (CO₂), Carbon monoxide, Nitrogen oxides (NO_x), Pyrolysis products, toxic**11. Toxicological information****Route(s) of Entry**

oral, Skin contact, Eye contact, Inhalation.

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

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CAS No	Components				
	Exposure route	Dose	Species	Source	Method
105-59-9	2,2'-(methylimino)diethanol; N-methyldiethanolamine				
	oral	LD50 4680 mg/kg	Rat	Pre-supplier/manufacter	
	dermal	LD50 5990 mg/kg	Rabbit	Pre-supplier/manufacter	
497-19-8	sodium carbonate				
	oral	LD50 4090 mg/kg	Rat	IUCLID	
1310-58-3	potassium hydroxide; caustic potash				
	oral	LD50 333 mg/kg	Rat	IUCLID	

Irritation and corrosivity

Skin corrosion/irritation: Causes severe skin burns and eye damage (On basis of test data)

Serious eye damage/eye irritation: Causes serious eye damage (On basis of test data)

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.

Carcinogenicity (OSHA): No ingredient of this mixture is listed.

Carcinogenicity (IARC): No ingredient of this mixture is listed.

Carcinogenicity (NTP): No ingredient of this mixture is listed.

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

Damaging effect on aquatic ecosystems possible due to change in the pH value.

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

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No information available.

Further information

Avoid release to the environment. The product is an alkali. Before discharge into sewage plants the product normally needs to be neutralised.

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

UN number or ID number:

UN 1760

Proper shipping name:

CORROSIVE LIQUID, N.O.S. (potassium hydroxide; caustic potash)

Transport hazard class(es):

8

Packing group:

II

Hazard label:

8



Marine transport (IMDG)

UN number or ID number:

UN 1760

UN proper shipping name:

CORROSIVE LIQUID, N.O.S. (potassium hydroxide; caustic potash)

Transport hazard class(es):

8

Packing group:

II

Hazard label:

8



Special Provisions:

274

Limited quantity:

1 L

Excepted quantity:

E2

EmS:

F-A, S-B

Air transport (ICAO-TI/IATA-DGR)

UN number or ID number:

UN 1760

UN proper shipping name:

CORROSIVE LIQUID, N.O.S. (potassium hydroxide; caustic potash)

Transport hazard class(es):

8

Packing group:

II

Hazard label:

8



Special Provisions:

A3 A803

Limited quantity Passenger:

0.5 L

Passenger LQ:

Y840

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Excepted quantity: E2
IATA-packing instructions - Passenger: 851
IATA-max. quantity - Passenger: 1 L
IATA-packing instructions - Cargo: 855
IATA-max. quantity - Cargo: 30 L

Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No
Marine pollutant: -

Special precautions for user

Warning: corrosive.

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

CAS No.: 497-19-8: listed
CAS No.: 105-59-9: listed
CAS No.: 1310-58-3: listed

National regulatory information

SARA Section 304 CERCLA:
Potassium hydroxide (1310-58-3): Reportable quantity = 1,000 (454) lbs. (kg)
SARA Section 311/312 Hazards:
2,2'-(methylimino)diethanol; N-methyldiethanolamine (105-59-9): Immediate (acute) health hazard
sodium carbonate (497-19-8): Immediate (acute) health hazard
Potassium hydroxide (1310-58-3): Immediate (acute) health hazard

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 %

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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.)