SAFETY DATA SHEET

# Test acid 21,6kt

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

| | |
|---|---|
| *Trade name:* | Test acid 21,6kt |
| *Product no.:* | PS21520 |
| *Unique formula identifier (UFI):* | G7U2-Y9X1-CD08-07Y4 |

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

| | |
|---|---|
| *Relevant identified uses of the substance or mixture:* | Special chemical for goldsmiths<br>Restricted to professional and industrial use. |
| *Uses advised against :* | None known. |

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

| | |
|---|---|
| *Company and address:* | **Aktiv Guld A/S**<br>Vallensbækvej 46<br>2625 Vallensbæk<br>Denmark<br>+45 43 66 20 00<br>https://www.aktivguld.com/ |
| *E-mail:* | ag@aktivguld.com |
| *Revision:* | 27/01/2026 |
| *SDS Version:* | 11.0 |
| *Date of previous version:* | 07/01/2026 (10.0) |

### 1.4. Emergency telephone number

Contact the poison hotline: +45 82 12 12 12 (24 hour service)
See section 4 “First aid measures”.

## SECTION 2: HAZARDS IDENTIFICATION

Classified according to Regulation (EC) No. 1272/2008 (CLP).

### 2.1. ▼Classification of the substance or mixture

Ox. Liq. 3; H272, May intensify fire; oxidiser.
Met. Corr. 1; H290, May be corrosive to metals.
Skin Corr. 1A; H314, Causes severe skin burns and eye damage.

Eye Dam. 1; H318, Causes serious eye damage.

## 2.2. Label elements

▼*Hazard pictogram(s):*

*Signal word:* Danger

▼*Hazard statement(s):*
May intensify fire; oxidiser. (H272)
May be corrosive to metals. (H290)
Causes severe skin burns and eye damage. (H314)

*Precautionary statement(s):*

*General:* Not applicable.

▼*Prevention:*
Do not breathe vapour/mist. (P260)
Wear face protection/protective gloves/protective clothing. (P280)

▼*Response:*
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. (P303+P361+P353)
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)

▼*Storage:* Store in a container with a resistant inner liner. (P406)

*Disposal:*
Dispose of contents/container in accordance with local regulation.
(P501)

*Hazardous substances:*
nitric acid ...% [C ≤ 70 %]
hydrochloric acid ... %

*Additional labelling:* EUH071, Corrosive to the respiratory tract.

UFI: G7U2-Y9X1-CD08-07Y4

## 2.3. Other hazards

*Additional warnings:*
This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.
This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2023/707.

# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

Not applicable. This product is a mixture.

### 3.2. Mixtures

| Product/substance | Identifiers | % w/w | Classification | Note |
|---|---|---|---|---|
| nitric acid ...% [C ≤ 70 %] | CAS No.: 7697-37-2<br>EC No.: 231-714-2<br>REACH: 01-2119487297-23-XXXX<br>Index No.: | 25-50% | Ox. Liq. 2, H272 (C ≥ 99.0%)<br>Ox. Liq. 3, H272 (65.0% ≤ C < 99.0%)<br>Skin Corr. 1A, H314 (C ≥ 20.0%)<br>Skin Corr. 1B, H314 (5.0% ≤ C < 20.0%) | [1] |
| hydrochloric acid ... % | CAS No.: 7647-01-0<br>EC No.: 231-595-7<br>REACH: 01-2119484862-27-XXXX<br>Index No.: | 1-5% | Press. Gas (Liq.) , H280<br>Skin Corr. 1A, H314<br>Acute Tox. 3, H331 | [1] |

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

### Other information

[1] European occupational exposure limit.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

*General information:* In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

▼*Inhalation:* Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

*Skin contact:* Flush exposed area with water for a long time - at least 30 minutes. It may be necessary to flush for several hours. Use a comfortable water temperature (20-30 °C). Contact Poison Information/doctor/hospital for further advice on follow-up and treatment. Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

| | |
|---|---|
| | If skin irritation occurs: Get medical advice/attention. |
| ▼*Eye contact:* | If in eyes: Flush eyes with plenty of water or saline solution (20-30 °C) for at least 30 minutes and continue until irritation stops. Remove contact lenses. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport. |
| *Ingestion:* | In the case of ingestion, contact a doctor immediately. If the person is conscious, give them water. DO NOT try to induce vomiting unless this is recommended by a doctor. Hold head facing down to prevent vomit from returning to the mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance. |
| *Burns:* | Rinse with water until pain stops then continue to rinse for 30 minutes. |

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

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

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

IF exposed or concerned:
Get immediate medical advice/attention.

### Information to medics

Bring this safety data sheet or the label from this product.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.
Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

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

May intensify fire; oxidiser.
Fire will result in dense smoke. Exposure to combustion products may harm your health.
Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.
If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:
Halogenated compounds

Nitrogen oxides ($NO_x$)

### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact the chemical emergency services on 72 85 20 00 (24 h service) in order to obtain further advice.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Storages not yet ignited must be cooled by water mist. Remove flammable materials if conditions allow it. Ensure sufficient ventilation.
Avoid direct contact with spilled substances.
Ensure adequate ventilation, especially in confined areas.
Contaminated areas may be slippery.

### 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.
Keep unauthorized persons away from the spill

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

Use only non-sparking tools. Clean up manually and place in appropriate containers for disposal.
Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

### 6.4. Reference to other sections

See section 13 “Disposal considerations” on handling of waste.
See section 8 "Exposure controls/personal protection" for protective measures.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Avoid direct contact with the product.
Smoking, drinking and consumption of food is not allowed in the work area.
See section 8 "Exposure controls/personal protection" for information on personal protection.

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

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.
Must be stored in a cool and well-ventilated area, away from possible sources of ignition.
Store in a container with a resistant inner liner.

| | |
|---|---|
| *Recommended storage material:* | Always store in containers of the same material as the original container. |
| *Storage conditions:* | Dry, cool and well ventilated |
| *Incompatible materials:* | Reducing agent, Combustible products. |

Bases

### 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

nitric acid ...% [C ≤ 70 %]
Short term exposure limit (15 minutes) (mg/m³): 2,6
Short term exposure limit (15 minutes) (ppm): 1
Annotations:
E = Substance has an EC limit.

hydrochloric acid ... %
Short term exposure limit (15 minutes) (mg/m³): 8
Short term exposure limit (15 minutes) (ppm): 5
Annotations:
E = Substance has an EC limit.

Statutory order 1356 on exposure limits for substances and mixtures (19/11/2025)

**DNEL**

hydrochloric acid ... %

| Duration: | Route of exposure: | DNEL: |
|---|---|---|
| Long term – Local effects - General population | Inhalation | 8 mg/m³ |
| Long term – Local effects - Workers | Inhalation | 8 mg/m³ |
| Short term – Local effects - General population | Inhalation | 15 mg/m³ |
| Short term – Local effects - Workers | Inhalation | 15 mg/m³ |

nitric acid ...% [C ≤ 70 %]

| Duration: | Route of exposure: | DNEL: |
|---|---|---|
| Long term – Local effects - General population | Inhalation | 1.3 mg/m³ |
| Long term – Local effects - Workers | Inhalation | 2.6 mg/m³ |
| Short term – Local effects - General population | Inhalation | 1.3 mg/m³ |
| Short term – Local effects - Workers | Inhalation | 2.6 mg/m³ |

**PNEC**

No data available.

### 8.2. Exposure controls

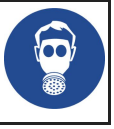
Compliance with the given occupational exposure limits values should be controlled on a regular basis.

| | |
|---|---|
| *General recommendations:* | Smoking, drinking and consumption of food is not allowed in the work area. |
| *Exposure scenarios:* | There are no exposure scenarios implemented for this product. |
| *Exposure limits:* | Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above. |
| *Appropriate technical measures:* | The formation of vapours must be kept at a minimum and below current limit values (see above).<br>Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.<br>Ensure that eyewash stations and safety showers are located within easy reach.<br>Apply standard precautions during use of the product. Avoid inhalation of vapours. |
| *Hygiene measures:* | In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face. |
| *Measures to avoid environmental exposure:* | Keep damming materials near the workplace. If possible, collect spillage during work. |

## Individual protection measures, such as personal protective equipment

*Generally:* Use only CE marked protective equipment.

*Respiratory Equipment:*

| Type | Class | Colour | Standards | |
|---|---|---|---|---|
| E | Class 1 (low capacity) | Yellow | EN14387 |  |

*Skin protection:*

| Recommended | Type/Category | Standards | |
|---|---|---|---|
| Dedicated work clothing should be worn. | - | - |  |

*Hand protection:*

| Material | Glove thickness (mm) | Breakthrough time (min.) | Standards | |
|---|---|---|---|---|
| Nitrile | 0,5 | > 480 | EN374-2, EN16523-13, EN388 |  |

*Eye protection:*

| Type | Standards | |
|---|---|---|
| Face shield alternatively safety glasses with side shields. | EN166 |  |

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

| | |
|---|---|
| *Physical state:* | Liquid |
| *Colour:* | Colourless, Yellowish |
| *Odour / Odour threshold:* | Disagreeable |
| *pH:* | <2 |
| *Density (g/cm$^3$):* | 1.3 (20 °C) |
| *Kinematic viscosity:* | No data available. |
| *Particle characteristics:* | Does not apply to liquids. |

**Phase changes**

| | |
|---|---|
| *Melting point/Freezing point (°C):* | No data available. |
| *Softening point/range (°C):* | Does not apply to liquids. |
| *Boiling point (°C):* | No data available. |
| *Vapour pressure:* | No data available. |
| *Relative vapour density:* | No data available. |
| *Decomposition temperature (°C):* | No data available. |

**Data on fire and explosion hazards**

| | |
|---|---|
| *Flash point (°C):* | No data available. |
| *Flammability (°C):* | No data available. |
| *Auto-ignition temperature (°C):* | No data available. |
| *Lower and upper explosion limit (% v/v):* | No data available. |

**Solubility**

| | |
|---|---|
| *Solubility in water:* | Completely soluble |

| | |
|---|---|
| *n-octanol/water coefficient (LogKow):* | No data available. |
| *Solubility in fat (g/L):* | No data available. |

### 9.2. Other information

| | |
|---|---|
| *Other physical and chemical parameters:* | No data available. |
| *Oxidizing properties:* | May intensify fire; oxidiser. |

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity
No data available.

### 10.2. Chemical stability
The product is stable under the conditions, noted in section 7 “Handling and storage”.

### 10.3. Possibility of hazardous reactions
None known.

### 10.4. Conditions to avoid
Keep away from clothing and other combustible materials.
Mechanical influences (e.g. shock, pressure, impact, friction). Fire, sparks or other ignition sources.

### 10.5. Incompatible materials
Bases
Reducing agents

### 10.6. Hazardous decomposition products
Thermal decomposition may produce corrosive vapours.

## SECTION 11: TOXICOLOGICAL INFORMATION

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

**▼Acute toxicity**
Based on available data for the mixture, 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 sensitisation**
Based on available data for the mixture, the classification criteria are not met.

**Skin sensitisation**
Based on available data for the mixture, the classification criteria are not met.

**Germ cell mutagenicity**

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

**Carcinogenicity**

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

**Reproductive toxicity**

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

**STOT-single exposure**

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

**STOT-repeated exposure**

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

**Aspiration hazard**

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

**Symptoms related to the physical, chemical and toxicological characteristics**

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

### 11.2. Information on other hazards

**Endocrine disrupting properties**

This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

**Other information**

hydrochloric acid ... % has been classified by IARC as a group 3 carcinogen.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

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

### 12.2. Persistence and degradability

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

### 12.3. Bioaccumulative potential

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

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

### 12.6. Endocrine disrupting properties

This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

### 12.7. Other adverse effects

None known.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste. (*)
HP 2 – Oxidising
HP 6 - Acute toxicity
HP 8 – Corrosive
Dispose of contents/container to an approved waste disposal plant.
Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

| | | |
|---|---|---|
| *EWC code:* | 11 01 06* | Acids not otherwise specified |
| *Waste group:* | Gr. X | Inorganic waste |

### Specific labelling

Not applicable.

### Contaminated packing

*EWC code:*

15 02 02*
Absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances
15 01 10*
Packaging containing residues of or contaminated by dangerous substances

*Waste group:*

Gr. Z
Waste that cannot be placed in any other waste group

## SECTION 14: TRANSPORT INFORMATION

| | 14.1 UN / ID | 14.2 UN proper shipping name | 14.3 Hazard class(es) | 14.4 PG* | 14.5 Env** | Other information: |
|---|---|---|---|---|---|---|
| ADR/ADN/ RID | UN3264 | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (nitric acid ...% [C ≤ 70 %], hydrochloric acid ... %) | Transport hazard class: 8<br>Label: 8<br>Classification code: C1<br>  | II | No | Limited quantities: 1 L<br>Tunnel restriction code: (E)<br>See below for additional |

| | 14.1<br>UN / ID | 14.2<br>UN proper shipping name | 14.3<br>Hazard class(es) | 14.4<br>PG* | 14.5<br>Env** | Other information: |
|---|---|---|---|---|---|---|
| | | | | | | information. |
| IMDG | UN3264 | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (nitric acid ...% [C ≤ 70 %], hydrochloric acid ... %) | Transport hazard class: 8<br>Label: 8<br>Classification code: C1<br>  | II | No | Limited quantities: 1 L<br>EmS: F-A S-B<br>See below for additional information. |
| IATA | UN3264 | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (nitric acid ...% [C ≤ 70 %], hydrochloric acid ... %) | Transport hazard class: 8<br>Label: 8<br>Classification code: C1<br>  | II | No | See below for additional information. |

* Packing group

** Environmental hazards

**Additional information**

This product is within scope of the regulations of transport of dangerous goods.
ADR/ADN/RID / See Table A, section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.
IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.
IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

### 14.6. Special precautions for user

Not applicable.

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

No data available.

## SECTION 15: REGULATORY INFORMATION

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

*Restrictions for application:* Industrial use only.

| | |
|---|---|
| | People under the age of 18 shall not be exposed to this product. |
| *Demands for specific education:* | No specific requirements. |
| ▼*SEVESO - Categories / dangerous substances:* | P8 - OXIDISING LIQUIDS AND SOLIDS, Qualifying quantity (lower-tier): 50 tonnes / (upper-tier): 200 tonnes<br>hydrochloric acid ... % |
| *Regulation on drug precursors:* | hydrochloric acid ... % is included (Category 3) |
| *Regulation on explosives precursors:* | nitric acid ...% [C ≤ 70 %] (Annex I) |
| *Additional information:* | Not applicable. |
| *Sources:* | The Danish Working Environment Authority's executive order no. 1713 of 18. Dec 2025 on young people's work. Based on Council Directive 94/33 / EC of 22 June 1994 on the protection of young people at work.<br>Executive Order no. 372 of 25 April 2016 on control of the risk of major accidents with dangerous substances.<br>Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.<br>Council Regulation (EC) No 273/2004 on drug precursors.<br>Council Regulation (EC) No 2019/1148 on explosives precursors.<br>Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP).<br>Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). |

### 15.2. Chemical safety assessment

No

## SECTION 16: OTHER INFORMATION

### Full text of H-phrases as mentioned in section 3

H272, May intensify fire; oxidiser.
H280, Contains gas under pressure; may explode if heated.
H314, Causes severe skin burns and eye damage.
H331, Toxic if inhaled.

## Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service
CE = Conformité Européenne (European conformity)
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
CSA = Chemical Safety Assessment
CSR = Chemical Safety Report
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EINECS = European Inventory of Existing Commercial chemical Substances
ES = Exposure Scenario
EUH statement = CLP-specific Hazard statement
EuPCS = European Product Categorisation System
EWC = European Waste Catalogue
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
GWP = Global warming potential
IARC = International Agency for Research on Cancer (IARC)
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SCL = A specific concentration limit
SVHC = Substances of Very High Concern
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TWA = Time weighted average
UN = United Nations
UVBC = Unknown or variable composition, complex reaction products or of biological materials
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

## Additional information

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP).
The classification of the mixture in regard to physical hazards has been based on experimental data.

**The safety data sheet is validated by**

Aktiv Guld A/S

**Other**

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.
The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.
It is recommended to hand over this safety data sheet to the actual user of the product.
Information in this safety data sheet cannot be used as a product specification.
Country-language: DK-en