

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 26.08.2019

Version number 6

Revision: 26.08.2019

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

· **1.1 Product identifier**

· **Trade name:** AAS-standard arsenic 1.000 g As/l  
As<sub>2</sub>O<sub>3</sub> in nitric acid 0.5 mol/l  
traceable to NIST



· **Article number:** 03816

· **Registration number** inapplicable, this product is a mixture

· **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.

· **Application of the substance / the mixture**  
Chemical intermediate  
Laboratory chemicals

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

Bernd Kraft GmbH  
Stempelstraße 6  
D-47167 Duisburg

produktsicherheit@berndkraft.de  
Tel.: (+49)0203/5194-0  
Fax : (+49)0203/5194-290

· **Further information obtainable from:** Product safety department

· **1.4 Emergency telephone number:**

For Hazardous Materials [or Dangerous Goods] Incidents  
Spill, Leak, Fire, Exposure, or Accident  
Call CHEMTREC Day or Night  
Within USA and Canada: 1-800-424-9300  
Outside USA and Canada: +1 703-741-5970 (collect calls accepted)

**SECTION 2: Hazards identification**

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**



GHS08 health hazard

Carc. 1A            H350 May cause cancer.



GHS05 corrosion

Met. Corr.1            H290 May be corrosive to metals.

Eye Dam. 1            H318 Causes serious eye damage.



GHS07

Skin Irrit. 2            H315 Causes skin irritation.

Aquatic Chronic 3    H412 Harmful to aquatic life with long lasting effects.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

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· **Hazard pictograms**

GHS05 GHS08

· **Signal word** *Danger*· **Hazard-determining components of labelling:***nitric acid**arsenic acid and its salts*· **Hazard statements***H290 May be corrosive to metals.**H315 Causes skin irritation.**H318 Causes serious eye damage.**H350 May cause cancer.**H412 Harmful to aquatic life with long lasting effects.*· **Precautionary statements***P201 Obtain special instructions before use.**P273 Avoid release to the environment.**P280 Wear protective gloves/protective clothing/eye protection/face protection.**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/doctor.**P308+P313 IF exposed or concerned: Get medical advice/attention.**P321 Specific treatment (see on this label).**P362+P364 Take off contaminated clothing and wash it before reuse.**P405 Store locked up.**P501 Dispose of contents/container in accordance with local/regional/national/international regulations.*· **2.3 Other hazards**· **Results of PBT and vPvB assessment**· **PBT:** *yes*· **vPvB:** *Not applicable.*

### SECTION 3: Composition/information on ingredients

· **3.2 Chemical characterisation: Mixtures**· **Description:** *Mixture of substances listed below with nonhazardous additions.*· **Dangerous components:**

CAS: 7697-37-2 EINECS: 231-714-2 Index number: 007-004-00-1 Reg.nr.: 01-2119487297-23-XXXX	<i>nitric acid</i> ----- ☠ Ox. Liq. 2, H272; ☠ Acute Tox. 3, H331; ☠ Met. Corr.1, H290; Skin Corr. 1A, H314; Eye Dam. 1, H318	2.5-5%
Index number: 033-005-00-1	<i>arsenic acid and its salts</i> ----- ☠ Acute Tox. 3, H301; Acute Tox. 3, H331; ☠ Carc. 1A, H350; ☠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	≤2.5%

· **Other substances that are irrelevant for the classification of the mixture:**

CAS: 7732-18-5 EINECS: 231-791-2	<i>water, distilled, conductivity or of similar purity</i>	50-100%
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· **SVHC***arsenic acid and its salts*

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· **Additional information** For the wording of the listed hazard phrases refer to section 16.

#### **SECTION 4: First aid measures**

- **4.1 Description of first aid measures**
- **General information** Personal protection for the First Aider.
- **After inhalation**  
Supply fresh air.  
Seek medical treatment.
- **After skin contact**  
Wash off with plenty of water. Immediately remove contaminated clothing.  
Seek medical treatment.
- **After eye contact** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing**  
Call for a doctor immediately.  
Call a doctor immediately.
- **4.2 Most important symptoms and effects, both acute and delayed**  
irritant effects  
Breathing difficulty  
Coughing  
pain  
Cramps  
vomiting  
CNS disorders  
purging  
Kollaps  
Methaemoglobinaemia
- **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 agents**  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- **For safety reasons unsuitable extinguishing agents**  
For this substance/mixture no limitations of extinguishing agents are given
- **5.2 Special hazards arising from the substance or mixture**  
Not combustible  
Ambient fire may liberate hazardous vapours.
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Stay in danger area only with self-contained breathing apparatus.  
Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.
- **Additional information**  
Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

#### **SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Advice for non-emergency personnel:  
Do not breathe vapours, aerosols.  
Ensure adequate ventilation

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- Avoid substance contact.  
 Wear protective equipment. Keep unprotected persons away.  
 Evacuate the danger area.  
 consult an expert  
 observe emergency procedures  
 Advice for emergency responders: Protective equipment see section 8.
- **6.2 Environmental precautions:** Do not allow product to reach sewage system or any water course.
  - **6.3 Methods and material for containment and cleaning up:**  
 Cover drains.  
 Collect, bind, and pump off spills.  
 Observe possible material restrictions  
 Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
 Clean up affected area.  
 Ensure adequate ventilation.  
 Send for recovery or disposal in suitable receptacles.  
 Dispose contaminated material as waste according to item 13.
  - **6.4 Reference to other sections**  
 See Section 7 for information on safe handling  
 See Section 8 for information on personal protection equipment.  
 See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
 Work only in fume cupboard.  
 Observe label precautions.  
 Do not inhale substance. Avoid generation of vapours/aerosols  
 Open and handle receptacle with care.  
 General occupational hygiene measures.  
 Remove contaminated clothing.  
 skin protection  
 Wash hands and face after working
- **Information about fire - and explosion protection:** Keep respiratory protective device available.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:**  
 Keep tightly closed in a dry, ventilated place  
 Keep locked up or in an area accessible only to qualified or authorised persons.
- **Information about storage in one common storage facility:** national regulations
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

**7697-37-2 nitric acid**

WEL (Great Britain) Short-term value: 2.6 mg/m<sup>3</sup>, 1 ppm

**arsenic acid and its salts**

WEL (Great Britain) Long-term value: 0.1 mg/m<sup>3</sup>  
 as As; Carc

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· **DNELs****7697-37-2 nitric acid**

Inhalative	DNEL long-term	1.3 mg/m <sup>3</sup> (human)
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· **Additional information:** The lists valid during the making were used as basis.· **8.2 Exposure controls**· **Personal protective equipment**· **General protective and hygienic measures**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

· **Respiratory protection:**

required when vapours/aerosols are generated.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

· **Protection of hands:**

Protective gloves.

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

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

chemically resistant

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Tightly sealed goggles.· **Body protection:**

Acid resistant protective clothing

Protective work clothing.

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

Approve the personal protection of Experts

· **Limitation and supervision of exposure into the environment**

Discharge into the environment must be avoided.

Do not empty into drains.

## SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**· **General Information**· **Appearance:****Form:**

Fluid

**Colour:**

Colourless

· **Odour:**

Odourless

· **Odour threshold:**

Not determined.

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· <b>pH-value:</b>	Acidic
· <b>Change in condition</b>	
<b>Melting point/freezing point:</b>	undetermined
<b>Initial boiling point and boiling range:</b>	100 °C
· <b>Flash point:</b>	Not applicable
· <b>Flammability (solid, gaseous)</b>	Not applicable.
· <b>Decomposition temperature:</b>	Not determined.
· <b>Auto-ignition temperature:</b>	Product is not selfigniting.
· <b>Explosive properties:</b>	Product does not present an explosion hazard.
· <b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
· <b>Vapour pressure at 20 °C:</b>	23 hPa
· <b>Density at 20 °C:</b>	1.017 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with</b>	
<b>Water:</b>	Fully miscible
· <b>Partition coefficient: n-octanol/water:</b>	Not determined.
· <b>Viscosity:</b>	
<b>dynamic:</b>	Not determined.
<b>kinematic:</b>	Not determined.
· <b>Solvent content:</b>	
<b>Water:</b>	95.7 %
<b>Solids content:</b>	0.0 %
· <b>9.2 Other information</b>	No further relevant information available.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** look at 10.3
- **10.2 Chemical stability**  
The product is chemically stable under standard ambient conditions (room temperature).
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** Reacts with alkaline metals
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**  
Metals  
metal alloys  
Gives off hydrogen by reaction with metals.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

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· **LD/LC50 values relevant for classification:**

**7697-37-2 nitric acid**

Oral	LD <sub>50</sub>	430 mg/kg (human)
Inhalative	LC <sub>50</sub>	0.13 mg/l / 4 h (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Causes skin irritation.
- **Serious eye damage/irritation**  
Causes serious eye damage.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Subacute to chronic toxicity:** no effects known (MSDS)
- **Acute effects (acute toxicity, irritation and corrosivity)**  
irritation  
see also Section 4
- **Repeated dose toxicity** no effects known (MSDS)
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)** May cause cancer
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity**  
May cause cancer.
- **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.

**SECTION 12: Ecological information**

· **12.1 Toxicity**

· **Aquatic toxicity:**

**7697-37-2 nitric acid**

EC50	4.6 mg/l (Daphnia) (48h)
LC50	72 mg/l (Fish) (96 h)

- **12.2 Persistence and degradability** No further relevant information available.

· **12.3 Bioaccumulative potential**

**7697-37-2 nitric acid**

log Pow	≤2.3 (n-octanol/water)
---------	------------------------

- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:**  
Harmful to aquatic organisms  
Water danger class 3 (German Regulation) (Self-assessment): extremely hazardous for water.  
Do not allow product to reach ground water, water course or sewage system, even in small quantities.  
Danger to drinking water if even extremely small quantities leak into the ground.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects**  
Discharge into the environment must be avoided.  
Do not allow to run into surface waters, wastewater, or soil.

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### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
Hand over to hazardous waste disposers.  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### SECTION 14: Transport information

- |   |  |
|---|--|
| · <b>14.1 UN-Number</b>   |  |
| · <b>ADR, IMDG, IATA</b>  | UN3264   |
| · <b>14.2 UN proper shipping name</b>   |  |
| · <b>ADR</b>  | 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID) |
| · <b>IMDG, IATA</b>   | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID)      |
| · <b>14.3 Transport hazard class(es)</b>  |  |
| · <b>ADR</b>  |  |
|  |  |
| · <b>Class</b>  | 8 (C1) Corrosive substances.                                   |
| · <b>Label</b>  | 8  |
| · <b>IMDG, IATA</b>   |  |
|  |  |
| · <b>Class</b>  | 8 Corrosive substances.  |
| · <b>Label</b>  | 8  |
| · <b>14.4 Packing group</b>   |  |
| · <b>ADR, IMDG, IATA</b>  | III  |
| · <b>14.5 Environmental hazards:</b>  |  |
| · <b>Marine pollutant:</b>  | No   |
| · <b>14.6 Special precautions for user</b>  | Warning: Corrosive substances.                                 |
| · <b>Danger code (Kemler):</b>  | 80   |
| · <b>EMS Number:</b>  | F-A,S-B  |
| · <b>Segregation groups</b>   | Acids  |
| · <b>Stowage Category</b>   | A  |
| · <b>Stowage Code</b>   | SW2 Clear of living quarters.                                  |
| · <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>    | Not applicable.  |

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· **Transport/Additional information:**

· **ADR**

· **Limited quantities (LQ)**

5L

· **Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

· **Transport category**

3

· **Tunnel restriction code**

E

· **IMDG**

· **Limited quantities (LQ)**

5L

· **Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

· **UN "Model Regulation":**

UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC,  
N.O.S. (NITRIC ACID), 8, III

### SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

· **Hazard pictograms**



GHS05 GHS08

· **Signal word** *Danger*

· **Hazard-determining components of labelling:**

nitric acid

arsenic acid and its salts

· **Hazard statements**

H290 May be corrosive to metals.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H350 May cause cancer.

H412 Harmful to aquatic life with long lasting effects.

· **Precautionary statements**

P201 Obtain special instructions before use.

P273 Avoid release to the environment.

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

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/doctor.

P308+P313 **IF exposed or concerned:** Get medical advice/attention.

P321 Specific treatment (see on this label).

P362+P364 Take off contaminated clothing and wash it before reuse.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)**

arsenic acid and its salts

Sunset date: 2017-08-22

- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 28, 72
- **National regulations**

· **Technical instructions (air):**

Class	Share in %
Wasser	95.7
I	0.3

- **Waterhazard class:** Water danger class 3 (Self-assessment): extremely hazardous for water.
- **Other regulations, limitations and prohibitive regulations**  
national regulations

· Take note of Dir 94/33/EC on the protection of young people at work.

· **Substances of very high concern (SVHC) according to REACH, Article 57**

arsenic acid and its salts

**SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

- H272 May intensify fire; oxidiser.
- H290 May be corrosive to metals.
- H301 Toxic if swallowed.
- H314 Causes severe skin burns and eye damage.
- H318 Causes serious eye damage.
- H331 Toxic if inhaled.
- H350 May cause cancer.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

· **Abbreviations and acronyms:**

- RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
- ICAO: International Civil Aviation Organisation
- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- DNEL: Derived No-Effect Level (REACH)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- SVHC: Substances of Very High Concern
- vPvB: very Persistent and very Bioaccumulative
- Ox. Liq. 2: Oxidizing liquids – Category 2
- Met. Corr.1: Corrosive to metals – Category 1
- Acute Tox. 3: Acute toxicity – Category 3
- Skin Corr. 1A: Skin corrosion/irritation – Category 1A
- Skin Irrit. 2: Skin corrosion/irritation – Category 2

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*Eye Dam. 1: Serious eye damage/eye irritation – Category 1*

*Carc. 1A: Carcinogenicity – Category 1A*

*Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1*

*Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1*

*Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3*

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