



**Safety Data Sheet**

according to 29 CFR 1910.1200(g)

**Custom ICP-ICP/MS Standard**

Revision date: 02/09/2026

Product code: AC18.23282

Page 2 of 10

**2. Hazard(s) identification**

**Classification of the chemical**

**29 CFR Part 1910.1200**

- Corrosive to metals: Met. Corr. 1
- Skin corrosion/irritation: Skin Corr. 1A
- Serious eye damage/eye irritation: Eye Dam. 1

**Label elements**

**29 CFR Part 1910.1200**

**Signal word:** Danger

**Pictograms:**



**Hazard statements**

- May be corrosive to metals
- Causes severe skin burns and eye damage

**Precautionary statements**

- Immediately call a poison center/doctor.
- Dispose of contents/container to hazardous or special waste collection point.
- Do not breathe dust/fume/gas/mist/vapors/spray.
- Wear protective gloves/protective clothing and eye protection/face protection.
- If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Hazards not otherwise classified**

No data available

**3. Composition/information on ingredients**

**Mixtures**

**Chemical characterization**

Mixtures in aqueous solution

**Relevant ingredients**

CAS No	Components	Quantity
7697-37-2	nitric acid	5 %

**Further Information**

No data available

**4. First-aid measures**

**Description of first aid measures**

**General information**

Self-protection of the first aider

**After inhalation**

- Provide fresh air.
- Call a physician immediately.

## Safety Data Sheet

according to 29 CFR 1910.1200(g)

### Custom ICP-ICP/MS Standard

Revision date: 02/09/2026

Product code: AC18.23282

Page 3 of 10

#### After contact with skin

Wash immediately with: Water  
 Take off immediately all contaminated clothing and wash it before reuse.  
 Call a physician immediately.

#### 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.  
 Protect uninjured eye.

#### After ingestion

Rinse mouth immediately and drink plenty of water.  
 Do NOT induce vomiting. Do not allow a neutralisation agent to be drunk.  
 Call a physician immediately.

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

Causes burns.  
 Irritant

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

No data available

## 5. Fire-fighting measures

#### Extinguishing media

##### Suitable extinguishing media

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

##### Unsuitable extinguishing media

no restriction

#### Specific hazards arising from the chemical

Non-combustible liquids  
 Hazardous combustion products  
 In case of fire may be liberated:  
 Nitrogen oxides (NOx)

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

In case of fire: Wear self-contained breathing apparatus.  
 Avoid contact with skin, eyes and clothes.

#### Additional information

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

## 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

##### General advice

Corrosive to metals.

##### For non-emergency personnel

Provide adequate ventilation.  
 Use personal protection equipment.  
 Avoid contact with skin, eyes and clothes.  
 Remove persons to safety.  
 Emergency procedures  
 Consult an expert  
 Do not breathe dust/fume/gas/mist/vapors/spray.

## Safety Data Sheet

according to 29 CFR 1910.1200(g)

### Custom ICP-ICP/MS Standard

Revision date: 02/09/2026

Product code: AC18.23282

Page 4 of 10

#### For emergency responders

Precautionary statements For emergency responders : Personal protection equipment (PPE): see section 8

#### Environmental precautions

Do not allow to enter into surface water or drains.

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

##### For containment

Cover drains.

Prevent spread over a wide area (e.g. by containment or oil barriers).

Collect in closed and suitable containers for disposal.

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

##### For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

##### Other information

Provide adequate ventilation.

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

Wear breathing apparatus if exposed to vapors/dusts/aerosols.

#### 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

Read label before use. Handle and open container with care.

When using do not eat, drink, smoke, sniff. Use personal protection equipment.

Provide adequate ventilation. Avoid contact with skin, eyes and clothes.

Do not breathe vapor or spray. Use extractor hood (laboratory).

##### Advice on protection against fire and explosion

Usual measures for fire prevention.

##### Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs. Remove contaminated, saturated clothing immediately.

Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink. Avoid: aerosol or mist formation Do not breathe vapor or spray.

##### Further information on handling

Draw up and observe skin protection programme.

Wash hands and face before breaks and after work and take a shower if necessary.

Take off immediately all contaminated clothing and wash it before reuse.

#### Conditions for safe storage, including any incompatibilities

##### Requirements for storage rooms and vessels

Corrosive to metals.

Unsuitable container/equipment material: Metal

The product develops hydrogen in an aqueous solution in contact with metals.

##### Hints on joint storage

To follow: National regulations

##### Further information on storage conditions

Keep container tightly closed.

**Safety Data Sheet**

according to 29 CFR 1910.1200(g)

**Custom ICP-ICP/MS Standard**

Revision date: 02/09/2026

Product code: AC18.23282

Page 5 of 10

**8. Exposure controls/personal protection**
**Control parameters**
**Exposure limits**

CAS No	Substance	ppm	mg/m <sup>3</sup>	Category	Origin
7697-37-2	Nitric acid	2	5	TWA (8 h)	PEL
		2	5	TWA (8 h)	REL
		4	10	STEL (15 min)	REL
7697-37-2	Nitric acid	2	5.2	TWA (8 h)	ACGIH-2025
		4	10	STEL (15 min)	ACGIH-2025

**Additional advice on limit values**

Observe in addition any national regulations!

**Exposure controls**
**Appropriate engineering controls**

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

**Individual protection measures, such as personal protective equipment**
**Eye/face protection**

goggles

Wear eye/face protection.

**Hand protection**

Wear suitable gloves. 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. Take off immediately all contaminated clothing.

Wash hands before breaks and after work.

The choice of body protection depends on the concentration and quantity of hazardous substances. The chemical resistance of the protective agents should be clarified with their suppliers.

**Respiratory protection**

Respiratory protection necessary at: aerosol or mist formation

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. A respiratory protection program that meets OSHA's 29 CFR 1910.134 requirements must be followed whenever workplace conditions warrant a respirator's use.

**Thermal hazards**

No data available

**Environmental exposure controls**

Do not allow to enter into surface water or drains.

**9. Physical and chemical properties**
**Information on basic physical and chemical properties**

Physical state: Liquid  
 Color: clear

**Safety Data Sheet**

according to 29 CFR 1910.1200(g)

**Custom ICP-ICP/MS Standard**

Revision date: 02/09/2026

Product code: AC18.23282

Page 6 of 10

Odor:	odorless - stinging	
Odour threshold:	No data available	
Melting point/freezing point:		No data available
Boiling point or initial boiling point and boiling range:		No data available
Flammability:		No data available
Lower explosion limits:		No data available
Upper explosion limits:		No data available
Flash point:		No data available
Auto-ignition temperature:		No data available
Decomposition temperature:		No data available
pH-Value:		acidic
Viscosity / kinematic:		No data available
Water solubility:		completely miscible
Solubility in other solvents		
No data available		
Dissolution rate:		No data available
Partition coefficient n-octanol/water:		No data available
Dispersion stability:		No data available
Vapor pressure:		No data available
Vapor pressure:		No data available
Density:		No data available
Relative density:		No data available
Bulk density:		No data available
Relative vapour density:		No data available
Particle characteristics:		No data available

**Other information**
**Information with regard to physical hazard classes**

Explosive properties		
No data available		
Sustained combustibility:		No data available
Self-ignition temperature		
Solid:		No data available
Gas:		No data available
Oxidizing properties		
No data available		

**Other safety characteristics**

Evaporation rate:		No data available
Solvent separation test:		No data available
Solvent content:		0%
Solid content:		0%
Sublimation point:		No data available
Softening point:		No data available
Pour point:		No data available
No data available:		
Viscosity / dynamic:		No data available
Flow time:		No data available

**Further Information**

Corrosive to metals.

**Safety Data Sheet**

according to 29 CFR 1910.1200(g)

**Custom ICP-ICP/MS Standard**

Revision date: 02/09/2026

Product code: AC18.23282

Page 7 of 10

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

Corrosive to metals.

**Chemical stability**

The product is stable under storage at normal ambient temperatures.

**Possibility of hazardous reactions**

Alkali (lye)

The product develops hydrogen in an aqueous solution in contact with metals.

**Conditions to avoid**

No data available

**Incompatible materials**

Cellulose

Metal

The product develops hydrogen in an aqueous solution in contact with metals.

**Hazardous decomposition products**

In case of fire may be liberated:

SECTION 5: Fire fighting measures

**Further information**

No data available

**11. Toxicological information**
**Route(s) of Entry**

There are no data available on the mixture itself.

**Information on toxicological effects**
**Toxicokinetics, metabolism and distribution**

There are no data available on the mixture itself.

**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

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
7697-37-2	nitric acid				
	inhalation vapour	ATE 2,65 mg/l			

**Irritation and corrosivity**

Skin corrosion/irritation: Causes severe skin burns and eye damage

Serious eye damage/eye irritation: Causes serious eye damage

**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.

## Safety Data Sheet

according to 29 CFR 1910.1200(g)

### Custom ICP-ICP/MS Standard

Revision date: 02/09/2026

Product code: AC18.23282

Page 8 of 10

#### 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.

#### Specific effects in experiment on an animal

There are no data available on the mixture itself.

#### Additional information on tests

There are no data available on the mixture itself.

#### Practical experience

There are no data available on the mixture itself.

#### Information on other hazards

##### 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 information

There are no data available on the mixture itself.

#### Further information

There are no data available on the mixture itself.

## 12. Ecological information

#### Persistence and degradability

There are no data available on the mixture itself.

#### Bioaccumulative potential

There are no data available on the mixture itself.

#### Mobility in soil

There are no data available on the mixture itself.

#### 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

Discharge into the environment must be avoided.

#### Further information

Do not allow to enter into surface water or drains.

## 13. Disposal considerations

#### Waste treatment methods

##### Disposal recommendations

Send to a physico-chemical treatment facility under observation of official regulations.  
 Do not empty into drains.

##### Contaminated packaging

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

## 14. Transport information

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

## Safety Data Sheet

according to 29 CFR 1910.1200(g)

### Custom ICP-ICP/MS Standard

Revision date: 02/09/2026

Product code: AC18.23282

Page 9 of 10

<b><u>UN number or ID number:</u></b>	UN 3264
<b><u>Proper shipping name:</u></b>	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (nitric acid)
<b><u>Transport hazard class(es):</u></b>	8
<b><u>Packing group:</u></b>	III
Hazard label:	8
Special Provisions:	IB3, T7, TP1, TP28
Limited quantity:	60 L

#### Marine transport (IMDG)

<b><u>UN number or ID number:</u></b>	UN 3264
<b><u>UN proper shipping name:</u></b>	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (nitric acid)
<b><u>Transport hazard class(es):</u></b>	8
<b><u>Packing group:</u></b>	III
Hazard label:	8
Special Provisions:	223 274
Limited quantity:	5 L
Excepted quantity:	E1
EmS:	F-A, S-B
Segregation group:	1 - acids

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

<b><u>UN number or ID number:</u></b>	UN 3264
<b><u>UN proper shipping name:</u></b>	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (nitric acid)
<b><u>Transport hazard class(es):</u></b>	8
<b><u>Packing group:</u></b>	III
Hazard label:	8
Special Provisions:	A3 A803
Limited quantity Passenger:	1 L
Passenger LQ:	Y841
Excepted quantity:	E1
IATA-packing instructions - Passenger:	852
IATA-max. quantity - Passenger:	5 L
IATA-packing instructions - Cargo:	856
IATA-max. quantity - Cargo:	60 L

#### Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

### 15. Regulatory information

#### U.S. Regulations

##### National regulatory information

SARA Section 302 Extremely hazardous substances:

Nitric acid (conc. < 80%) (7697-37-2): Reportable quantity = 1,000 lbs., Threshold planning quantity = 1,000 lbs.

SARA Section 304 CERCLA:

Nitric acid (conc. < 80%) (7697-37-2): Reportable quantity = 1,000 (454) lbs. (kg)

SARA Section 311/312 Hazards:

Nitric acid (conc. < 80%) (7697-37-2): Fire hazard, Immediate (acute) health hazard

SARA Section 313 Toxic release inventory:

Nitric acid (conc. < 80%) (7697-37-2): 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

**Safety Data Sheet**

according to 29 CFR 1910.1200(g)

**Custom ICP-ICP/MS Standard**

Revision date: 02/09/2026

Product code: AC18.23282

Page 10 of 10

other reproductive harm.

**16. Other information**

Revision date: 02/09/2026

Revision No: 1,00

**Other data**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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.

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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.)*