

## AAS-Standard Aluminium 2 g/l in Salpetersäure 1 % und Flusssäure 1 %

Revision date: 12.04.2024

Product code: 32769

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

#### 1.1. Product identifier

AAS-Standard Aluminium 2 g/l in Salpetersäure 1 % und Flusssäure 1 %

UFI:

TDRW-R2RK-100U-4RVA

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

## Use of the substance/mixture

Laboratory chemicals

Industrial uses: Uses of substances as such or in preparations at industrial sites

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

#### Uses advised against

Do not use for private purposes (household).

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

Company name:	AnalytiChem GmbH	
	ACD	
Street:	Stempelstraße 6	
Place:	D-47167 Duisburg	
Telephone:	0203/5194-0	Telefax: 0203/5194-290
E-mail:	info@analytichem.de	
Contact person:	Abteilung Produktsicherheit	Telephone:0203/5194-107/117
E-mail:	produktsicherheit@analytichem.de	
Internet:	www.analytichem.de	
Responsible Department:	Abteilung Produktsicherheit	
1.4. Emergency telephone	For Hazardous Materials [or Danger	ous Goods] Incidents Spill, Leak, Fire,
number:	•	REC Day or Night Within USA and Canada: anada: +1 703-741-5970 (collect calls

**Further Information** 

This product is a mixture. REACH Registration Number see section 3.

## SECTION 2: Hazards identification

## 2.1. Classification of the substance or mixture

#### Regulation (EC) No 1272/2008

Met. Corr. 1; H290 Acute Tox. 3; H311 Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Corr. 1B; H314 Eye Dam. 1; H318

Full text of hazard statements: see SECTION 16.

#### 2.2. Label elements

#### Regulation (EC) No 1272/2008

#### Hazard components for labelling

nitric acid Hydrofluoric acid ... %

Signal word: Danger

Revision No: 1,02 - Replaces version: 1,01



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## Hazard statements

H290	May be corrosive to metals.
H302+H332	Harmful if swallowed or if inhaled.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.

#### **Precautionary statements**

i i oouunonui y otutoinion	
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
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.
2.3. Other hazards	

No data available

## **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

#### Chemical characterization Mixtures in aqueous solution

#### **Relevant ingredients**

CAS No	Chemical name			
	EC No	Index No	REACH No	
	Classification (Regulation (EC	C) No 1272/2008)		
7697-37-2	nitric acid			1 - < 5 %
	231-714-2	007-030-00-3	01-2119487297-23	
	Ox. Liq. 3, Met. Corr. 1, Acute Tox. 3, Skin Corr. 1A; H272 H290 H331 H314 EUH071			
7664-39-3	Hydrofluoric acid %			1 - < 5 %
	231-634-8	009-003-00-1	01-2119458860-33	
	Acute Tox. 1, Acute Tox. 2, A	cute Tox. 2, Skin Corr. 1A; H31	0 H330 H300 H314	
7429-90-5	aluminium			< 1 %
	231-072-3	013-001-00-6		
	Flam. Sol. 2, Pyr. Sol. 1, Water-react. 2, Aquatic Acute 1; H228 H250 H261 H400			

Full text of H and EUH statements: see section 16.



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Quantity

# Specific Conc. Limits, M-factors and ATE CAS No EC No Chemical name Specific Conc. Limits, M factors and ATE

	Specific Conc. I	Specific Conc. Limits, M-factors and ATE		
7697-37-2	231-714-2	nitric acid	1 - < 5 %	
		E 2,65 mg/l (vapours) Ox. Liq. 3; H272: >= 65 - 100 Skin Corr. 1A; H314: >= 20 rr. 1B; H314: >= 5 - < 20		
7664-39-3	231-634-8	Hydrofluoric acid %	1 - < 5 %	
	201-004-0		1 40 70	

#### **Further Information**

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

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

## 4.1. Description of first aid measures

#### General information

First aider: Pay attention to self-protection!

#### After inhalation

Provide fresh air.

Call a physician immediately.

#### 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. Call a physician immediately.

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

Causes burns.

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

#### Suitable extinguishing media

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

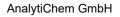
# Unsuitable extinguishing media

no restriction

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

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

## 5.3. Advice for firefighters





# Safety Data Sheet

according to Regulation (EC) No 1907/2006

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In case of fire: Wear self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes. Avoid contact with skin, eyes and clothes.

#### Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Move undamaged containers from immediate hazard area if it can be done safely. Use water spray jet to protect personnel and to cool endangered containers.

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

#### 6.1. 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 Do not breathe dust/fume/gas/mist/vapours/spray.

#### For emergency responders

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

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

#### 6.3. 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/vapours/spray. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

#### 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

## **SECTION 7: Handling and storage**

#### 7.1. 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 vapour/aerosol. Use extractor hood (laboratory).

#### Advice on protection against fire and explosion

Usual measures for fire prevention.



## Safety Data Sheet

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#### 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 vapour/aerosol.

#### 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.

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

#### Requirements for storage rooms and vessels

#### Corrosive to metals.

Unsuitable container/equipment material: Metal, Glass The product develops hydrogen in an aqueous solution in contact with metals.

#### Further information on storage conditions

Keep container tightly closed.

Store in a place accessible by authorized persons only.

## 7.3. Specific end use(s)

Laboratory chemicals

## **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### **Occupational exposure limits**

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
7429-90-5	Aluminium metal (Respirable Fraction)	-	1		TWA (8 h)	
7664-39-3	Hydrogen fluoride (as F)	1.8	1.5		TWA (8 h)	
		3	2.5		STEL (15 min)	
7697-37-2	Nitric acid	1	2.6		STEL (15 min)	

#### **Biological limit values**

CAS No	Substance	Parameter	Value	Test material	Sampling time
7664-39-3	Hydrogen fluoride	Fluoride	3 mg/L	Urine	End of shift



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## **DNEL/DMEL** values

CAS No	Substance					
DNEL type		Exposure route	Effect	Value		
7664-39-3	Hydrofluoric acid %					
Worker DNEL	., long-term	inhalation	systemic	1,5 mg/m³		
Worker DNEL	., acute	inhalation	systemic	2,5 mg/m³		
Worker DNEL	., long-term	inhalation	local	1,5 mg/m³		
Worker DNEL	., acute	inhalation	local	2,5 mg/m <sup>3</sup>		
Consumer D	NEL, long-term	inhalation	systemic	0,03 mg/m³		
Consumer DI	NEL, acute	inhalation	systemic	0,03 mg/m³		
Consumer D	NEL, long-term	inhalation	local	0,2 mg/m³		
Consumer D	NEL, acute	inhalation	local	1,25 mg/m³		
Consumer DI	NEL, long-term	oral	systemic	0,01 mg/kg bw/day		
Consumer DI	NEL, acute	oral	systemic	0,01 mg/kg bw/day		

## **PNEC** values

CAS No	Substance			
Environmental compartment Value				
7664-39-3 Hydrofluoric acid %				
Freshwater		0,89 mg/l		
Marine water 0,089 mg/l				
Freshwater sediment 3,38 mg/kg				
Marine sediment 0,338 mg/kg				
Micro-organisms in sewage treatment plants (STP) 5				
Soil		10,6 mg/kg		

#### 8.2. 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

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contact Recommended glove articles: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11 mm Wearing time with permanent contact: > 480 min

By short-term hand contact Recommended glove articles: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11mm



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Wearing time with occasional contact (splashes): > 480 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

#### 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 protective agents must be clarified with their suppliers.

#### **Respiratory protection**

Respiratory protection necessary at: aerosol or mist formation The entrepeneur 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.

#### **Environmental exposure controls**

Do not allow to enter into surface water or drains.

#### **SECTION 9: Physical and chemical properties**

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

Physical state:LiquidColour:colourless	
Colour: colourless	
Odour: odourless	
Melting point/freezing point: No data	available
Boiling point or initial boiling point and No data	available
boiling range:	
	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:	<1
Viscosity / kinematic: No data	available
Water solubility: completely	miscible
Solubility in other solvents	
No data available	
Partition coefficient n-octanol/water: No data	available
Vapour pressure: No data	available
· -F F	available
2 choigi	available
,	available
Relative vapour density: No data	available
9.2. Other information	
Information with regard to physical hazard classes	
Explosive properties	
No data available	
	available
Self-ignition temperature	
	available
Gas: No data	available



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Oxidizing properties		
Oxidizing		
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.

#### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Corrosive to metals.

#### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

Alkali (lye)

#### 10.4. Conditions to avoid

No data available

## 10.5. Incompatible materials

Glass Metal

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

## 10.6. Hazardous decomposition products

In case of fire may be liberated:

SECTION 5: Firefighting measures

## Further information

No data available

## **SECTION 11: Toxicological information**

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

## Toxicocinetics, metabolism and distribution

There are no data available on the preparation/mixture itself.

### Acute toxicity

Toxic in contact with skin. Harmful if swallowed. Harmful if inhaled.

## ATEmix calculated

ATE (oral) 500,0 mg/kg; ATE (dermal) 500,0 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) 4,364 mg/l



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CAS No	Chemical name	Chemical name						
	Exposure route	Dose		Species	Source	Method		
7697-37-2	nitric acid	nitric acid						
	inhalation vapour	ATE 2,6	5 mg/l					
7664-39-3	Hydrofluoric acid %	Hydrofluoric acid %						
	oral	ATE	5 mg/kg					
	dermal	ATE	5 mg/kg					
	inhalation vapour	ATE	0,5 mg/l					
	inhalation dust/mist	ATE	0,05 mg/l					
	inhalation (1 h) gas	LC50 ppm	2240	Rat	Study report (1990)	OECD Guideline 403		

#### Irritation and corrosivity

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

#### Sensitising 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.

#### 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.

#### Specific effects in experiment on an animal

There are no data available on the preparation/mixture itself.

# Additional information on tests

There are no data available on the preparation/mixture itself.

#### **Practical experience**

There are no data available on the preparation/mixture itself.

#### 11.2. Information on other hazards

#### Other information

There are no data available on the preparation/mixture itself.

#### Further information

There are no data available on the preparation/mixture itself.

#### **SECTION 12: Ecological information**

## 12.1. Toxicity

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



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CAS No	Chemical name							
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method	
7697-37-2	nitric acid							
	Acute fish toxicity	LC50 mg/l	1559	96 h	Topeka shiner	Environmental Toxicology and Chemistry,	other: ASTM E729-26	
	Fish toxicity	NOEC	268 mg/l	30 d	juvenile Topeka shiner and with juvenile Fathead m	Study report (2009)	Growth tests estimated the test chemical	
	Algae toxicity	NOEC mg/l	> 419	10 d	several benthic diatoms; see results	Marine Biology 43:307-315 (1977)	Ten cultures of benthic diatoms were iso	
	Acute bacteria toxicity	EC50 mg/l()	> 1000	3 h	Activated sludge	Study report (2008)	OECD Guideline 209	
7664-39-3	Hydrofluoric acid %							
	Acute fish toxicity	LC50	299 mg/l	96 h	Salmo trutta	REACh Registration Dossier	other: U.S Environmental Protection Agen	
	Acute algae toxicity	ErC50	43 mg/l	96 h	various algae species	REACh Registration Dossier	Methods not detailed in the review.	
	Crustacea toxicity	NOEC	3,7 mg/l	21 d	Daphnia magna	REACh Registration Dossier	The publication is a review article of v	
	Acute bacteria toxicity	EC50 mg/l()	2930	3 h	Activated sludge	REACh Registration Dossier	ISO 8192	

#### 12.2. Persistence and degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

#### 12.3. Bioaccumulative potential

There are no data available on the mixture itself.

BCF

CAS No	Chemical name	BCF	Species	Source
7664-39-3	Hydrofluoric acid %	53 - 58	not specified	REACh Registration D

#### 12.4. Mobility in soil

There are no data available on the mixture itself.

## 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

## 12.6. 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.

#### 12.7. Other adverse effects

Discharge into the environment must be avoided.

#### Further information

Do not allow to enter into surface water or drains.

#### **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

# Disposal recommendations

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.



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Land transport (ADR/RID)

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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.

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

## **SECTION 14: Transport information**

Land transport (ADR/RID)	
14.1. UN number or ID number:	UN 2922
14.2. UN proper shipping name:	CORROSIVE LIQUID, TOXIC, N.O.S. (Hydrofluoric acid, nitric acid)
<u>14.3. Transport hazard class(es):</u>	8
14.4. Packing group:	II
Hazard label:	8+6.1
Classification code:	CT1
Special Provisions:	274
Limited quantity:	1 L
Excepted quantity:	E2
Transport category:	2
Hazard No:	86
Tunnel restriction code:	E
Inland waterways transport (ADN)	
14.1. UN number or ID number:	UN 2922
14.2. UN proper shipping name:	CORROSIVE LIQUID, TOXIC, N.O.S. (Hydrofluoric acid, nitric acid)
14.3. Transport hazard class(es):	8
14.4. Packing group:	II
Hazard label:	8+6.1
Classification code:	CT1
Special Provisions:	274 802
Limited quantity:	1 L
Excepted quantity:	E2
Marine transport (IMDG)	
14.1. UN number or ID number:	UN 2922
14.2. UN proper shipping name:	CORROSIVE LIQUID, TOXIC, N.O.S. (Hydrofluoric acid, Nitric acid)
14.3. Transport hazard class(es):	8
14.4. Packing group:	II
Hazard label:	8+6.1
Special Provisions:	274
Limited quantity:	1 L
Excepted quantity:	E2
EmS:	F-A, S-B
Air transport (ICAO-TI/IATA-DGR)	
14.1. UN number or ID number:	UN 2922
14.2. UN proper shipping name:	CORROSIVE LIQUID, TOXIC, N.O.S. (Hydrofluoric acid, Nitric acid)
14.3. Transport hazard class(es):	8
14.4. Packing group:	II
Hazard label:	8+6.1
Special Provisions:	A3 A803
Limited quantity Passenger:	0.5 L
Passenger LQ:	Y840
Excepted quantity:	E2
IATA-packing instructions - Passenger:	851
IATA-max. quantity - Passenger:	1 L
IATA-packing instructions - Cargo:	855



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IATA-max. quantity - Cargo	o: 30 L
14.5. Environmental hazards	
ENVIRONMENTALLY HAZ	ZARDOUS: No
SECTION 15: Regulatory ir	nformation
15.1. Safety, health and envir	onmental regulations/legislation specific for the substance or mixture
EU regulatory information	1
Restrictions on use (REACI	
Entry 3, Entry 75	
Information according to Dir 2012/18/EU (SEVESO III):	
, , ,	sives precursors (Regulation (EU) 2019/1148):
	ed by Regulation (EU) 2019/1148: all suspicious transactions, and significant
disappearances and the	efts should be reported to the relevant national contact point.
National regulatory inform	nation
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juvenile
	work protection guideline' (94/33/EC). Observe employment restrictions
	under the Maternity Protection Directive (92/85/EEC) for expectant or
Water hazard class (D):	nursing mothers.
Water hazard class (D):	nursing mothers. 1 - slightly hazardous to water
	nursing mothers. 1 - slightly hazardous to water
	nursing mothers. 1 - slightly hazardous to water
SECTION 16: Other inform Changes	nursing mothers. 1 - slightly hazardous to water
SECTION 16: Other inform Changes This data sheet contain Abbreviations and acrony	nursing mothers. 1 - slightly hazardous to water nation as changes from the previous version in section(s): 1,9,12. ms
SECTION 16: Other inform Changes This data sheet contain Abbreviations and acrony Pyr. Sol: Pyrophoric sol	nursing mothers. 1 - slightly hazardous to water nation as changes from the previous version in section(s): 1,9,12. ms lid
SECTION 16: Other inform Changes This data sheet contain Abbreviations and acrony Pyr. Sol: Pyrophoric sol Water-react: Substance	nursing mothers. 1 - slightly hazardous to water nation as changes from the previous version in section(s): 1,9,12. ms lid e and mixture which, in contact with water, emits flammable gas
SECTION 16: Other inform Changes This data sheet contain Abbreviations and acrony Pyr. Sol: Pyrophoric sol Water-react: Substance Ox. Liq: Oxidising liquid	nursing mothers. 1 - slightly hazardous to water mation as changes from the previous version in section(s): 1,9,12. ms lid e and mixture which, in contact with water, emits flammable gas
SECTION 16: Other inform Changes This data sheet contain Abbreviations and acrony Pyr. Sol: Pyrophoric sol Water-react: Substance Ox. Liq: Oxidising liquid	nursing mothers. 1 - slightly hazardous to water nation as changes from the previous version in section(s): 1,9,12. ms lid e and mixture which, in contact with water, emits flammable gas d or mixture corrosive to metals
SECTION 16: Other inform Changes This data sheet contain Abbreviations and acrony Pyr. Sol: Pyrophoric sol Water-react: Substance Ox. Liq: Oxidising liquid Met. Corr: Substance of Flam. Sol: Flammable s Acute Tox: Acute toxicit	nursing mothers. 1 - slightly hazardous to water nation as changes from the previous version in section(s): 1,9,12. ms lid e and mixture which, in contact with water, emits flammable gas d r mixture corrosive to metals solid ty
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H272 May intensify fire; oxidiser.

H290 May be corrosive to metals.

H300 Fatal if swallowed.



## AAS-Standard Aluminium 2 g/l in Salpetersäure 1 % und Flusssäure 1 %

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H302	Harmful if swallowed.	
H302+H332	Harmful if swallowed or if inhaled.	
H310	Fatal in contact with skin.	
H311	Toxic in contact with skin.	
H314	Causes severe skin burns and eye damage.	
H318	Causes serious eye damage.	
H330	Fatal if inhaled.	
H331	Toxic if inhaled.	
H332	Harmful if inhaled.	
H400	Very toxic to aquatic life.	
EUH071	Corrosive to the respiratory tract.	

#### **Further Information**

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. Provide appropriate information, instructions and training to users

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