

# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

# Salpetersäure- / Flusssäure-Gemisch I 20 % (w/w) Salpetersäure + 4 % (w/w) Flusssäure in Wasser

Revision: 07.05.2024 Product code: 31992 Page 1 of 14

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

#### 1.1. Product identifier

Salpetersäure- / Flusssäure-Gemisch I 20 % (w/w) Salpetersäure + 4 % (w/w) Flusssäure in Wasser

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

#### Use of the substance/mixture

Reagents and laboratory chemicals
Only for laboratory and analysis purposes.

## 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

<u>1.4. Emergency telephone</u> For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire,

<u>number:</u> 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)

# **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. 2; H310 Acute Tox. 3; H331 Acute Tox. 3; H301 Skin Corr. 1A; 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



according to Regulation (EC) No 1907/2006

# Salpetersäure- / Flusssäure-Gemisch I 20 % (w/w) Salpetersäure + 4 % (w/w) Flusssäure in Wasser

Revision: 07.05.2024 Product code: 31992 Page 2 of 14

# Pictograms:





#### **Hazard statements**

H290 May be corrosive to metals.
H301+H331 Toxic if swallowed or if inhaled.
H310 Fatal in contact with skin.

H314 Causes severe skin burns and eye damage.

## **Precautionary statements**

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.

# Special labelling of certain mixtures

EUH071 Corrosive to the respiratory tract.

# 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	Chemical name			
	EC No	Index No	REACH No		
	Classification (Regulation (EC)	No 1272/2008)			
7697-37-2	nitric acid				
	231-714-2	007-030-00-3	01-2119487297-23		
	Ox. Liq. 3, Met. Corr. 1, Acute Tox. 3, Skin Corr. 1A, Eye Dam. 1; H272 H290 H331 H314 H318 EUH071				
7664-39-3	Hydrofluoric acid %			1 - < 5 %	
	231-634-8	009-003-00-1	01-2119458860-33		
	Acute Tox. 1, Acute Tox. 2, Acute Tox. 2, Skin Corr. 1A, Eye Dam. 1; H310 H330 H300 H314 H318				

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



# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

# Salpetersäure- / Flusssäure-Gemisch I 20 % (w/w) Salpetersäure + 4 % (w/w) Flusssäure in Wasser

Revision: 07.05.2024 Product code: 31992 Page 3 of 14

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. I	imits, M-factors and ATE	
7697-37-2	231-714-2	nitric acid	20 - < 25 %
	1	2,65 mg/l (vapours) Ox. Liq. 3; H272: >= 65 - 100 Skin Corr. 1A; H314: >= 20 1B; H314: >= 5 - < 20	
7664-39-3	231-634-8	Hydrofluoric acid %	1 - < 5 %
	LC50 = 2240 pp	= 0,5 mg/l (vapours); inhalation: ATE = 0,05 mg/l (dusts or mists); inhalation: om (gases); dermal: ATE = 5 mg/kg; oral: ATE = 5 mg/kg	

## **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! Remove affected person from the danger area and lay down.

#### After inhalation

Provide fresh air.

If breathing is irregular or stopped, administer artificial respiration.

Medical treatment necessary.

## After contact with skin

Wash immediately with:

Calcium gluconate solution

Water

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.

#### After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Adverse human health effects and symptoms: Gastric perforation. Call a physician immediately. Do not allow a neutralisation agent to be drunk.

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

Irritant — skin irritation and eye damage

Causes burns.

Cough

Dyspnoea

Risk of serious damage to eyes.

Vomiting

Methaemoglobinaemia

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

It is recommended to consult a doctor with experience in the treatment of lesions caused by hydrofluoric acid

# **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media



# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

# Salpetersäure- / Flusssäure-Gemisch I 20 % (w/w) Salpetersäure + 4 % (w/w) Flusssäure in Wasser

Revision: 07.05.2024 Product code: 31992 Page 4 of 14

#### 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)

Hydrogen fluoride

#### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

Do not inhale explosion and combustion gases.

Avoid contact with skin, eyes and clothes.

#### Additional information

Suppress gases/vapours/mists with water spray jet.

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

Consult an expert

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.

Clean contaminated articles and floor according to the environmental legislation.

## 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.



# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

# Salpetersäure- / Flusssäure-Gemisch I 20 % (w/w) Salpetersäure + 4 % (w/w) Flusssäure in Wasser

Revision: 07.05.2024 Product code: 31992 Page 5 of 14

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

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

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

When using do not eat, drink, smoke, sniff. Keep container tightly closed.

Use personal protection equipment. Use extractor hood (laboratory).

Provide adequate ventilation.

Avoid contact with skin, eyes and clothes.

## Advice on protection against fire and explosion

Keep away from: Combustible substance

## Advice on general occupational hygiene

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. 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.

# 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

Store in a place accessible by authorized persons only.

Keep container tightly closed.

Provide adequate ventilation as well as local exhaustion at critical locations.

Keep in a cool place.

# Hints on joint storage

Keep away from combustible material.

national regulations

#### Further information on storage conditions

Unsuitable container/equipment material:

Metal

Glass

# 7.3. Specific end use(s)

Laboratory chemicals

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

## 8.1. Control parameters



according to Regulation (EC) No 1907/2006

# Salpetersäure- / Flusssäure-Gemisch I 20 % (w/w) Salpetersäure + 4 % (w/w) Flusssäure in Wasser

Revision: 07.05.2024 Product code: 31992 Page 6 of 14

# Occupational exposure limits

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
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

#### **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/m³	
Consumer DNEL, long-term		inhalation	systemic	0,03 mg/m³	
Consumer DN	NEL, acute	inhalation	systemic	0,03 mg/m³	
Consumer DN	NEL, long-term	inhalation	local	0,2 mg/m³	
Consumer DNEL, acute		inhalation	local	1,25 mg/m³	
Consumer DN	NEL, long-term	oral	systemic	0,01 mg/kg bw/day	
Consumer DNEL, acute		oral	systemic	0,01 mg/kg bw/day	

# **PNEC values**

CAS No	Substance			
Environment	al 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)		51 mg/l		
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. Do not breathe gas/fumes/vapour/spray.

Individual protection measures, such as personal protective equipment



according to Regulation (EC) No 1907/2006

# Salpetersäure- / Flusssäure-Gemisch I 20 % (w/w) Salpetersäure + 4 % (w/w) Flusssäure in Wasser

Revision: 07.05.2024 Product code: 31992 Page 7 of 14

#### Eye/face protection

Suitable eye protection: Face protection shield goggles.

## Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

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

Trade name/designation: KCL 720 Camapren®

Recommended material: CR (polychloroprene, chloroprene rubber) 0,65 mm

Wearing time with permanent contact: > 480 min

By short-term hand contact

Trade name/designation: KCL 730 Camatril® Velours
Recommended material: NBR (Nitrile rubber) 0,4 mm
Wearing time with occasional contact (splashes): > 120 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.

# **Respiratory protection**

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

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. In case of inadequate ventilation wear respiratory protection.

# **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: Liquid
Colour: colourless
Odour: stinging

Melting point/freezing point:

Boiling point or initial boiling point and

No data available

No data available

boiling range:



according to Regulation (EC) No 1907/2006

# Salpetersäure- / Flusssäure-Gemisch I 20 % (w/w) Salpetersäure + 4 % (w/w) Flusssäure in Wasser

Revision: 07.05.2024 Product code: 31992 Page 8 of 14

Flammability: not applicable

Lower explosion limits:

Upper explosion limits:

not determined
not determined

Flash point: X
Auto-ignition temperature: No data available

Auto-ignition temperature:

Decomposition temperature:

pH-Value:

No data available

not determined

acidic

Viscosity / kinematic: No data available

Solubility in other solvents

not determined

Partition coefficient n-octanol/water:

Vapour pressure:

Vapour pressure:

No data available

No data available

Density:

No data available

Bulk density:

No data available

Relative vapour density:

not determined

# 9.2. Other information

## Information with regard to physical hazard classes

Explosive properties

No data available

Self-ignition temperature

Solid: not applicable
Gas: not applicable

Oxidizing properties

The product is: oxidising, Oxidising.

# Other safety characteristics

Evaporation rate: not determined Solid content: not determined Sublimation point: No data available Softening point: No data available Pour point: No data available

No data available:

Viscosity / dynamic:

Flow time:

No data available

No data available

# **Further Information**

No data available

# **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

Corrosive to metals. oxidising, Oxidising.

# 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

# 10.3. Possibility of hazardous reactions

Exothermic reaction with: Combustible substance, Alkali metals, Alkaline earth metal, Heavy metals, Metal powder, Acid, Base.

Risk of ignition or formation of inflammable gases or vapours with: formaldehyde, glycerol, sulphuric acid, hydrogen iodide, chlorates, Organic Substances, carbon/soot, Hydrocarbons, Alkali metals, lithium silicide,



according to Regulation (EC) No 1907/2006

# Salpetersäure- / Flusssäure-Gemisch I 20 % (w/w) Salpetersäure + 4 % (w/w) Flusssäure in Wasser

Revision: 07.05.2024 Product code: 31992 Page 9 of 14

organic solvent, phosphorus, pyridine, sulfur dioxide, hydrogen sulfide, hydrogen peroxide, acetonitrile, acetylidene, Alcohols, anilines, antimony hydride, arsenic hydride, Amines, Ammonia, combustible substances, phosphides, Aldehydes, dichloromethane, hydrazines, Dioxane, acetic acid, Acetone, Acetic anhydride, Fluorine, Powdered metals Violent reactions possible with: Nitriles, antimony, arsenic, Boron, ferric oxide, alkalines, sodium hypochlorite

## 10.4. Conditions to avoid

No data available

#### 10.5. Incompatible materials

Unsuitable container/equipment material:

Metal

Glass

Keep away from: Metal. Keep away from combustible material.

Cellulose

The product develops hydrogen in an aqueous solution in contact with metals. Nitrogen oxides (NOx)

#### 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

#### **Acute toxicity**

Fatal in contact with skin.

Toxic if inhaled.

Toxic if swallowed.

Avoid exposure - obtain special instructions before use.

## **ATEmix calculated**

ATE (oral) 125,0 mg/kg; ATE (dermal) 125,0 mg/kg; ATE (inhalation vapour) 6,820 mg/l; ATE (inhalation dust/mist) 0,8330 mg/l

CAS No	Chemical name	Chemical name					
	Exposure route	Dose		Species	Source	Method	
7697-37-2	nitric acid						
	inhalation vapour	ATE 2,65 r	mg/l				
7664-39-3	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.

Corrosive to the respiratory tract.



# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

# Salpetersäure- / Flusssäure-Gemisch I 20 % (w/w) Salpetersäure + 4 % (w/w) Flusssäure in Wasser

Revision: 07.05.2024 Product code: 31992 Page 10 of 14

## 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

No data available

#### Additional information on tests

No data available

## **Practical experience**

No data available

# 11.2. Information on other hazards

#### Other information

Adverse human health effects and symptoms

gastric perforation

Pulmonary oedema

Inhalation effect: Damage to the respiratory tract.

see also Section 4

#### **Further information**

No data available

# **SECTION 12: Ecological information**

# 12.1. Toxicity



according to Regulation (EC) No 1907/2006

# Salpetersäure- / Flusssäure-Gemisch I 20 % (w/w) Salpetersäure + 4 % (w/w) Flusssäure in Wasser

Revision: 07.05.2024 Product code: 31992 Page 11 of 14

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

The product has not been tested.

## **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

The product has not been tested.

# 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.

The product has not been tested.

# 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

Harmful effect due to pH shift.

Forms corrosive mixtures with water even if diluted.

Discharge into the environment must be avoided.



according to Regulation (EC) No 1907/2006

# Salpetersäure- / Flusssäure-Gemisch I 20 % (w/w) Salpetersäure + 4 % (w/w) Flusssäure in Wasser

Revision: 07.05.2024 Product code: 31992 Page 12 of 14

#### **Further information**

Avoid release to the environment.

# **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

## **Disposal recommendations**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Send to a physico-chemical treatment facility under observation of official regulations.

# 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. (nitric acid, Hydrofluoric acid)

14.3. Transport hazard class(es): Ш 14.4. Packing group: 8+6.1 Hazard label: CT1 Classification code: **Special Provisions:** 274 Limited quantity: 1 L E2 Excepted quantity: 2 Transport category: Hazard No: 86 Ε Tunnel restriction code:

# 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. (nitric acid, Hydrofluoric acid)

14.3. Transport hazard class(es):814.4. Packing group:IIHazard label:8+6.1Classification code:CT1Special Provisions:274 802Limited quantity:1 LExcepted quantity:E2

# Other applicable information (inland waterways transport)

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. (Nitric acid, Hydrofluoric acid)

14.3. Transport hazard class(es):814.4. Packing group:IIHazard label:8+6.1Special Provisions:274Limited quantity:1 LExcepted quantity:E2EmS:F-A, S-B



# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

# Salpetersäure- / Flusssäure-Gemisch I 20 % (w/w) Salpetersäure + 4 % (w/w) Flusssäure in Wasser

Revision: 07.05.2024 Product code: 31992 Page 13 of 14

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. (Nitric acid, Hydrofluoric acid)

14.3. Transport hazard class(es):814.4. Packing group:IIHazard label:8+6.1Special Provisions:A3 A803Limited quantity Passenger:0.5 LPassenger LQ:Y840Excepted quantity:E2

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

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Warning: Oxidising substances, strongly corrosive.

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

not applicable

## **SECTION 15: Regulatory information**

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

# **EU** regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 75

Marketing and use of explosives precursors (Regulation (EU) 2019/1148):

Acquisition, introduction, possession or use of this product by the general public is restricted by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

#### **National regulatory information**

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

nursing mothers.

Water hazard class (D): 1 - slightly hazardous to water

# 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

## **SECTION 16: Other information**

# Changes

This data sheet contains changes from the previous version in section(s): 1,15.



# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

# Salpetersäure- / Flusssäure-Gemisch I 20 % (w/w) Salpetersäure + 4 % (w/w) Flusssäure in Wasser

Revision: 07.05.2024 Product code: 31992 Page 14 of 14

## Abbreviations and acronyms

Ox. Liq. 3: Oxidising liquids, hazard category 3
Met. Corr. 1: Corrosive to metals, hazard category 1
Acute Tox. 1: Acute toxicity, hazard category 1
Skin Corr. 1A: Skin corrosion, sub-category 1A
Eye Dam. 1: Serious eye damage, hazard category 1

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 Harmonized 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 LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

## Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Met. Corr. 1; H290	On basis of test data
Acute Tox. 2; H310	Calculation method
Acute Tox. 3; H331	Calculation method
Acute Tox. 3; H301	Calculation method
Skin Corr. 1A; H314	Calculation method
Eye Dam. 1; H318	Calculation method

#### Relevant H and EUH statements (number and full text)

H272	May intensify fire; oxidiser.
H290	May be corrosive to metals.
H300	Fatal if swallowed.

H301 Toxic if swallowed.

H301+H331 Toxic if swallowed or if inhaled.
H310 Fatal 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.

EUH071 Corrosive to the respiratory tract.

# **Further Information**

Provide appropriate information, instructions and training to users

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