



according to Regulation (EC) No 1907/2006

HF/HCI-Mischung 2 5 % HF / 13 % HCI

Revision date: 31.08.2023

Product code: 32900

Page 1 of 13

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

1.1. Product identifier

HF/HCI-Mischung 2 5 % HF / 13 % HCI

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	
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:	Exposure, or Accident Call CHEMTF	REC Day or Night Within USA and Canada:
	1-800-424-9300 Outside USA and C	anada: +1 703-741-5970 (collect calls

Further Information

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

accepted)

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; H301 Acute Tox. 3; H331 Skin Corr. 1B; H314 Eye Dam. 1; H318 STOT SE 3; H335

Full text of hazard statements: see SECTION 16.

Danger

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling

Hydrochloric acid Hydrofluoric acid ... %

Signal word:



according to Regulation (EC) No 1907/2006

HF/HCI-Mischung 2 5 % HF / 13 % HCI

Revision date: 31.08.2023

Pictograms:

Product code: 32900

Page 2 of 13



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.
H335	May cause respiratory irritation.

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.
P308	IF exposed or concerned:
P310	Immediately call a POISON CENTER/doctor.

Additional advice on labelling

No information available.

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixtures in aqueous solution

Hazardous components

CAS No	Chemical name					
	EC No	EC No Index No REACH No				
	Classification (Regulation (EC) No 1272/2008)					
7647-01-0	Hydrochloric acid			10 - < 15 %		
	231-595-7	231-595-7 017-002-01-X 01-2119484862-27				
	Skin Corr. 1B, STOT SE 3; H					
7664-39-3	Hydrofluoric acid %			5 - < 10 %		
	231-634-8	009-003-00-1	01-2119458860-33			
	Acute Tox. 1, Acute Tox. 2, Acute Tox. 2, Skin Corr. 1A; H310 H330 H300 H314					

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



according to Regulation (EC) No 1907/2006

HF/HCI-Mischung 2 5 % HF / 13 % HCI

Revision date: 31.08.2023

Product code: 32900

Page 3 of 13

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	C No Chemical name						
	Specific Conc. Limits, M-factors and ATE							
7647-01-0	231-595-7	Hydrochloric acid	10 - < 15 %					
	Skin Corr. 1B; H314: >= 25 - 100 Skin Irrit. 2; H315: >= 10 - < 25 Eye Irrit. 2; H319: >= 10 - < 25 STOT SE 3; H335: >= 10 - 100							
7664-39-3	231-634-8	Hydrofluoric acid %	5 - < 10 %					
	inhalation: ATE = 0,5 mg/l (vapours); inhalation: ATE = 0,05 mg/l (dusts or mists); inhalation: LC50 = 1610 ppm (gases); dermal: ATE = 5 mg/kg; oral: ATE = 5 mg/kg Skin Corr. 1A; H314: >= 7 - 100 Skin Corr. 1B; H314: >= 1 - < 7 Eye Irrit. 2; H319: >= 0,1 - < 1							

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. Call a physician immediately.

After inhalation

Provide fresh air.

If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.

After contact with skin

Rinse with plenty of water for at least 10 minutes. Immediately remove contaminated clothes. Apply calcium gluconate gel (preparation: boil 5 g of calcium gluconate in 85 ml of hot distilled water, add 10 g glycerol. Allow 5 g of Carmellose-sodium to swell in the hot solution. Stable for 6 months, store in a cool place) and massage into the skin until the pain subsides, in between rinse with water and apply fresh gel. Continue gel therapy for another 15 minutes after the pain has subsided. If no calcium gluconate gel is available, apply several dressings thoroughly moistened with 20 % calcium gluconate solution. Medical advice absolutely required!

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

Never give anything by mouth to an unconscious person or a person with cramps. Rinse mouth immediately and drink plenty of water. Adverse human health effects and symptoms: Gastric perforation

Remove casualty to fresh air and keep warm and at rest.

Call a physician immediately.

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

Irritant Causes burns. Cough Dyspnoea Risk of serious damage to eyes. Gastric perforation Circulatory collapse Pulmonary oedema Vomiting seizures



AnalytiChem GmbH

HF/HCI-Mischung 2 5 % HF / 13 % HCI

Revision date: 31.08.2023

Product code: 32900

Page 4 of 13

Pneumonia

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: Hydrogen fluoride, Hydrogen chloride (HCI)

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit. In case of fire and/or explosion do not breathe fumes. Use water spray jet to protect personnel and to cool endangered containers.

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.

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



according to Regulation (EC) No 1907/2006

HF/HCI-Mischung 2 5 % HF / 13 % HCI

Revision date: 31.08.2023

Product code: 32900

Page 5 of 13

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

Avoid exposure - obtain special instructions before use. 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

Usual measures for fire prevention.

Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs. Make available sufficient washing facilities 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.

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.

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

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations. storage temperature $+5^{\circ}C - +30^{\circ}C$

Further information on storage conditions

Store in a dry place. Suitable container/equipment material: plastic Unsuitable container/equipment material: Metal, Glass

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
7647-01-0	Hydrogen chloride	5	8		TWA (8 h)	
		10	15		STEL (15 min)	
7664-39-3	Hydrogen fluoride (as F)	1.8	1.5		TWA (8 h)	
		3	2.5		STEL (15 min)	



HF/HCI-Mischung 2 5 % HF / 13 % HCI

Revision date: 31.08.2023

Product code: 32900

Page 6 of 13

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		
7647-01-0 Hydrochloric acid						
Worker DNEL, long-term		inhalation	local	8 mg/m³		
Worker DNEL,	Worker DNEL, acute		local	15 mg/m³		
Consumer DNEL, long-term		inhalation	local	8 mg/m³		
Consumer DNE	EL, acute	inhalation	local	15 mg/m³		

8.2. Exposure controls

Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe

gas/fumes/vapour/spray.

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

Individual protection measures, such as personal protective equipment

Eye/face protection

Suitable eye protection: goggles

Face protection umbrella

Hand protection

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

Wearing time with permanent contact Trade name/designation: KCL 720 Camapren® Recommended material: CR (polychloroprene, chloroprene rubber) Thickness of the glove material 0,65 mm Wearing time with permanent contact > 480 min

Wearing time with occasional contact (splashes): Trade name/designation: KCL 720 Camapren® Recommended material: CR (polychloroprene, chloroprene rubber) Thickness of the glove material 0,65 mm 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.



according to Regulation (EC) No 1907/2006

HF/HCI-Mischung 2 5 % HF / 13 % HCI

Revision date: 31.08.2023

Product code: 32900

Page 7 of 13

Respiratory protection

Respiratory protection necessary at: aerosol or mist formation

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:	0.0	No data available
Boiling point or initial boiling point ar	ld	No data available
boiling range:		
Flammability:		not applicable
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Flash point:		Х
Auto-ignition temperature:		No data available
Decomposition temperature:		not determined
pH-Value:		acidic
Viscosity / kinematic:		not determined
Water solubility:		Soluble in: Water
Solubility in other solvents		
not determined		
Partition coefficient n-octanol/water:		not determined
Vapour pressure:		not determined
Vapour pressure:		not determined
Density:		~1,07 g/cm³
Bulk density:		No data available
Relative vapour density:		not determined
9.2. Other information		
Information with regard to physica	I hazard classes	
Explosive properties		
No data available		
Self-ignition temperature		
Solid:		not applicable
Gas:		not applicable
Oxidizing properties		
Not oxidising.		
Other safety characteristics		
Evaporation rate:		
•		not determined
Solvent separation test:		No data available
Solvent separation test: Solvent content:		No data available No data available
Solvent separation test: Solvent content: Solid content:		No data available No data available not determined
Solvent separation test: Solvent content: Solid content: Sublimation point:		No data available No data available not determined No data available
Solvent separation test: Solvent content: Solid content: Sublimation point: Softening point:		No data available No data available not determined No data available No data available
Solvent separation test: Solvent content: Solid content: Sublimation point: Softening point: Pour point:		No data available No data available not determined No data available
Solvent separation test: Solvent content: Solid content: Sublimation point: Softening point: Pour point: No data available:		No data available No data available not determined No data available No data available No data available
Solvent separation test: Solvent content: Solid content: Sublimation point: Softening point: Pour point: No data available: Viscosity / dynamic:		No data available No data available not determined No data available No data available No data available not determined
Solvent separation test: Solvent content: Solid content: Sublimation point: Softening point: Pour point: No data available:		No data available No data available not determined No data available No data available No data available



according to Regulation (EC) No 1907/2006

HF/HCI-Mischung 2 5 % HF / 13 % HCI

Revision date: 31.08.2023

Product code: 32900

Page 8 of 13

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.4. Conditions to avoid

Radiant heat.

10.5. Incompatible materials

Metal

Glass

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

10.6. Hazardous decomposition products

In case of fire:

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

Avoid exposure - obtain special instructions before use.

Acute toxicity

Fatal in contact with skin. Toxic if swallowed. Toxic if inhaled. If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects). Causes poorly healing wounds. Irritant Causes burns. Cough Dyspnoea Risk of serious damage to eyes. Gastric perforation Circulatory collapse Pulmonary oedema Vomiting seizures Pneumonia

ATEmix calculated

ATE (oral) 100,0 mg/kg; ATE (dermal) 100,0 mg/kg; ATE (inhalation vapour) 10,00 mg/l; ATE (inhalation dust/mist) 1,000 mg/l



HF/HCI-Mischung 2 5 % HF / 13 % HCI

Revision date: 31.08.2023

Product code: 32900

Page 9 of 13

CAS No	Chemical name							
	Exposure route	Dose		Species	Source	Method		
7664-39-3	Hydrofluoric acid %							
	oral	ATE	5 mg/kg					
	dermal	ATE	5 mg/kg					
	inhalation vapour ATE 0,5 mg/l	0,5 mg/l						
	inhalation dust/mist	ATE	0,05 mg/l					
	inhalation (1 h) gas	LC50 ppm	1610	Rat				

Irritation and corrosivity

Causes severe skin burns and eye damage.

Causes serious eye damage.

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

May cause respiratory irritation. (Hydrochloric acid)

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. No data available

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

No data available

Further information

Following ingestion gastric perforation Liver and kidney damage Risk of serious damage to eyes.

SECTION 12: Ecological information

12.1. Toxicity

No information available.

CAS No	Chemical name						
	Aquatic toxicity Dose			n] [d]	Species	Source	Method
7647-01-0	Hydrochloric acid						
	Acute fish toxicity	LC50 862 n	g/l	96 h	Leuciscus idus		

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential



HF/HCI-Mischung 2 5 % HF / 13 % HCI

Revision date: 31.08.2023

Product code: 32900

Page 10 of 13

No information available.

12.4. Mobility in soil

No information available.

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

No information available.

Further information

Avoid release to the environment. Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Do not allow to enter into surface water or drains.

Contaminated packaging

This material and its container must be disposed of as hazardous waste. 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, Hydrochloric
	acid)
14.3. Transport hazard class(es):	8
14.4. Packing group:	
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, Hydrochloric
	acid)
14.3. Transport hazard class(es):	8
14.4. Packing group:	
Hazard label:	8+6.1
Classification code:	CT1
Special Provisions:	274 802



HF/HCI-Mischung 2 5 % HF / 13 % HCI		
Revision date: 31.08.2023	Product code: 32900	Page 11 of 13
Limited quantity:	1L	
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, Hydrochloric acid)	
14.3. Transport hazard class(es):	8	
14.4. Packing group:	II	
Hazard label:	8+6.1	
Special Provisions:	274	
Limited quantity:	1L	
Excepted quantity: EmS:	E2	
	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, Hydrochloric acid)	
<u>14.3. Transport hazard class(es):</u>	8	
14.4. Packing group:	ll	
Hazard label:	8+6.1	
Special Provisions:	A3 A803	
Limited quantity Passenger:	0.5 L	
Passenger LQ:	Y840	
Excepted quantity: IATA-packing instructions - Passenger:	E2 851	
IATA-packing instructions - Passenger: IATA-max. quantity - Passenger:	1 L	
IATA-packing instructions - Cargo:	855	
IATA-max. quantity - Cargo:	30 L	
14.5. Environmental hazards		
ENVIRONMENTALLY HAZARDOUS:	No	
14.6. Special precautions for user Warning: Toxic. strongly corrosive.		
14.7. Maritime transport in bulk according to	IMO instruments	
not applicable		
SECTION 15: Regulatory information		
15.1. Safety, health and environmental regul	ations/legislation specific for the substance or mixture	
EU regulatory information		
Restrictions on use (REACH, annex XVII):		
Entry 3, Entry 75		
Information according to 2012/18/EU (SEVESO III):	H2 ACUTE TOXIC	
National regulatory information		
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juven 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):	2 - obviously hazardous to water	
Skin resorption/Sensitization:	Permeates easily through outer skin and causes poisoning.	



according to Regulation (EC) No 1907/2006

HF/HCI-Mischung 2 5 % HF / 13 % HCI

Revision date: 31.08.2023

Product code: 32900

Page 12 of 13

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): 9,12.

Abbreviations and acronyms

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% Met. Corr: Substance or mixture corrosive to metals Acute Tox: Acute toxicity Skin Corr: Skin corrosion Eye Dam: Eye damage STOT SE: Specific target organ toxicity - single exposure

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; H301	Calculation method
Acute Tox. 3; H331	Calculation method
Skin Corr. 1B; H314	Calculation method
Eye Dam. 1; H318	Calculation method
STOT SE 3; H335	Calculation method

Relevant H and EUH statements (number and full text)

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.
H335	May cause respiratory irritation.

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.



according to Regulation (EC) No 1907/2006

HF/HCI-Mischung 2 5 % HF / 13 % HCI

Revision date: 31.08.2023

Product code: 32900

Page 13 of 13

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