

Fa. Bernd Kraft GmbH

according to Regulation (EC) No 1907/2006

Salpetersäure 10 Vol.-% reinst in Ethanol vergällt

Revision date: 08.06.2022

Product code: 31878

Page 1 of 12

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

1.1. Product identifier

Salpetersäure 10 Vol.-% reinst in Ethanol vergällt

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:	Fa. Bernd Kraft GmbH	
Street:	Stempelstraße 6	
Place:	D-47167 Duisburg	
Telephone: e-mail:	0203/5194-0 info@berndkraft.de	Telefax: 0203/5194-290
Contact person: e-mail: Internet: Responsible Department:	Abteilung Produktsicherheit produktsicherheit@berndkraft.de www.berndkraft.de Abteilung Produktsicherheit	Telephone: 0203/5194-107/117
<u>1.4. Emergency telephone</u> number:	Exposure, or Accident Call CHEMTF	ous Goods] Incidents Spill, Leak, Fire, 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.

accepted)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Met. Corr. 1; H290 Flam. Liq. 2; H225 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

Signal word:

Pictograms:

Danger



Hazard statements

H225 H290 Highly flammable liquid and vapour. May be corrosive to metals.



Salpetersäure	10 Vol%	reinst in	Ethanol	vergällt
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Revision date: 08.06.2022	Product code: 31878	Page 2 of 12
H314	Causes severe skin burns and eye damage.	
Precautionary statemen	ts	
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 cert	ain mixtures	

Corrosive to the respiratory tract.

2.3. Other hazards

EUH071

No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixtures

Hazardous components

CAS No	Chemical name						
	EC No	C No Index No REACH No					
	Classification (Regulation (EC) No 1272/2008)						
64-17-5	ethanol						
	200-578-6	200-578-6 603-002-00-5 01-2119457610-43					
	Flam. Liq. 2, Eye Irrit. 2	2; H225 H319					
7697-37-2	nitric acid			5 - < 10 %			
	231-714-2						
	Ox. Liq. 3, Met. Corr. 1, Acute Tox. 3, Skin Corr. 1A; H272 H290 H331 H314 EUH071						

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	EC No Chemical name					
	Specific Conc. Limits, M-factors and ATE						
64-17-5	200-578-6	200-578-6 ethanol					
	inhalation: LC50 = 124,7 mg/l (vapours); oral: LD50 = 10470 mg/kg Eye Irrit. 2; H319: >= 50 - 100						
7697-37-2	231-714-2	nitric acid	5 - < 10 %				
		2,65 mg/kg (vapours) Ox. Liq. 3; H272: >= 65 - 100 Skin Corr. 1A; H314: >= Corr. 1B; H314: >= 5 - < 20					

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

No data available



according to Regulation (EC) No 1907/2006

Salpetersäure 10 Vol.-% reinst in Ethanol vergällt

Revision date: 08.06.2022

Product code: 31878

Page 3 of 12

After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. 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.

After ingestion

Rinse mouth immediately and drink plenty of water. Observe risk of aspiration if vomiting occurs. Call a physician immediately.

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

Dyspnoea Headache Irritant Causes burns. Dizziness

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

No data available

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

Combustible liquids Hazardous combustion products In case of fire may be liberated: Nitrogen oxides (NOx) Carbon dioxide (CO2) Carbon monoxide Vapours are heavier than air, spread along floors and form explosive mixtures with air. Heating causes rise in pressure with risk of bursting.

5.3. Advice for firefighters

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



according to Regulation (EC) No 1907/2006

Salpetersäure 10 Vol.-% reinst in Ethanol vergällt

Revision date: 08.06.2022

Product code: 31878

Page 4 of 12

General advice

Keep away from sources of ignition - No smoking.

This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe). Take action to prevent static discharges.

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.

The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration.

Danger of explosion

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

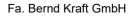
Read label before use. Handle and open container with care. When using do not eat, drink, smoke, sniff. Keep container tightly closed. Use personal protection equipment. Use extractor hood (laboratory). Do not breathe gas/fumes/vapour/spray. Provide adequate ventilation.

Advice on protection against fire and explosion

Take action to prevent static discharges. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs.





according to Regulation (EC) No 1907/2006

Salpetersäure 10 Vol.-% reinst in Ethanol vergällt

Revision date: 08.06.2022

Product code: 31878

Page 5 of 12

Further information on handling

Take off immediately all contaminated clothing and wash it before reuse. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. 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 in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Further information on storage conditions

Keep cool. Protect from sunlight.

Corrosive to metals. Unsuitable container/equipment material: Metal

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
64-17-5	Ethyl alcohol	1000	-		STEL (15 min)	
7697-37-2	Nitric acid	1	2.6		STEL (15 min)	

DNEL/DMEL values

CAS No	Substance						
DNEL type		Exposure route	Effect	Value			
64-17-5	ethanol						
Worker DNEL,	Worker DNEL, long-term inhalation systemic 950 mg/m³						
Worker DNEL,	Worker DNEL, long-term dermal systemic 343 mg/kg bw/d						
Consumer DNE	EL, long-term	inhalation	systemic	114 mg/m³			
Consumer DNE	EL, long-term	dermal	systemic	206 mg/kg bw/day			
Consumer DNE	EL, long-term	oral	systemic	87 mg/kg bw/day			

PNEC values

CAS No	Substance		
Environmen	tal compartment	Value	
64-17-5	ethanol		
Freshwater 0,96 mg/l			
Freshwater (intermittent releases) 2,75 mg/l			
Marine wate	r	0,79 mg/l	
Freshwater sediment 3,6 mg/kg			
Marine sediment 2,9 mg/kg			
Secondary poisoning 3			
Micro-organ	isms in sewage treatment plants (STP)	580 mg/l	
Soil		0,63 mg/kg	

8.2. Exposure controls



Salpetersäure 10 Vol.-% reinst in Ethanol vergällt

Revision date: 08.06.2022

Product code: 31878

Page 6 of 12

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 Face protection umbrella

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 890 Vitoject® Suitable material: FKM (fluoro rubber) 0,7 mm Wearing time with permanent contact: > 480 min

By short-term hand contact Trade name/designation: KCL 898 Butoject® Suitable material: Butyl caoutchouc (butyl rubber) 0,7 mm Wearing time with occasional contact (splashes): > 300 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

Take off immediately all contaminated clothing and wash it before reuse. Wear fire resistant or flame retardant clothing.

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

Draw up and observe skin protection programme.

Respiratory protection

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

Environmental exposure controls

Do not allow to enter into surface water or drains. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Danger of explosion

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Colour:	Liquid clear
Odour:	stinging
Odour threshold:	No data available

Changes in the physical state



Salpetersäure	10 Vol% reinst in Ethanol vergällt	
Revision date: 08.06.2022	Product code: 31878	Page 7 of 12
Melting point/freezing point:	No data available	
Boiling point or initial boiling point and	>35 °C	
boiling range:	No data available	
Sublimation point:	No data available	
Softening point: Pour point:	No data available No data available	
- our point.	No data available	
Flash point:	21 °C	
	\$21.0	
Flammability Solid/liquid:	No data available	
Gas:	No data available	
Explosive properties		
Vapours are heavier than air, spread along floo	ors and form explosive mixtures with air.	
Lower explosion limits:	No data available	
Upper explosion limits:	No data available	
Auto-ignition temperature:	No data available	
Self-ignition temperature		
Solid:	No data available	
Gas:	No data available	
Decomposition temperature:	No data available	
pH-Value:	acidic	
Viscosity / dynamic:	No data available	
Viscosity / kinematic:	No data available	
Flow time:	No data available	
Water solubility:	No data available	
Solubility in other solvents No data available		
Partition coefficient n-octanol/water:	No data available	
Vapour pressure:	No data available	
Vapour pressure:	No data available	
Density (at 20 °C):	0,8602 g/cm³	
Bulk density:	No data available	
Relative vapour density:	No data available	
9.2. Other information		
Information with regard to physical hazard class	Ses	
Oxidizing properties No data available		
Other safety characteristics		
Solvent separation test:	No data available	
Solvent content:	No data available	
Solid content:	No data available	
Evaporation rate:	No data available	
Further Information		
No data available		



Salpetersäure 10 Vol.-% reinst in Ethanol vergällt

Revision date: 08.06.2022

Product code: 31878

Page 8 of 12

SECTION 10: Stability and reactivity

10.1. Reactivity

Vapours may form explosive mixtures with air. Corrosive to metals.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Oxidising agent Alkali (lye)

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5. Incompatible materials

Cellulose

Metal

10.6. Hazardous decomposition products

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 mixture itself.

Acute toxicity

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

CAS No	Chemical name									
	Exposure route	Dose		Species	Source	Method				
64-17-5	ethanol									
	oral	LD50 mg/kg	10470	Rat	Study report (1976)	OECD Guideline 401				
	inhalation (4 h) vapour	LC50 mg/l	124,7	Rat	Study report (1980)	OECD Guideline 403				
7697-37-2	nitric acid									
	inhalation vapour	ATE 2,65 r	mg/kg							

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

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

STOT-repeated exposure

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



according to Regulation (EC) No 1907/2006

Salpetersäure 10 Vol.-% reinst in Ethanol vergällt

Revision date: 08.06.2022

Product code: 31878

Page 9 of 12

Aspiration hazard

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

Additional information on tests

No data available

Practical experience No data available

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11.2. Information on other hazards

Other information

Following ingestion Gastric perforation Irritating to respiratory system. Pulmonary oedema

Further information

No data available

SECTION 12: Ecological information

12.1. Toxicity

There are no data available on the mixture itself.

CAS No	Chemical name									
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method			
64-17-5	ethanol									
	Acute fish toxicity	LC50 mg/l	15400	96 h	Lepomis macrochirus	Bulletin of Environmental Contamination	other: EPA-660/3-75-00 9, 1975			
	Acute algae toxicity	ErC50 22000 mg/l	ca.	96 h	Pseudokirchneriella subcapitata	Ecotoxicology and Environmental Safety 7	OECD Guideline 201			
	Acute crustacea toxicity	EC50 mg/l	> 10000	48 h	Daphnia magna	Water Research 23(4): 495-499 (1989)	other: DIN 38412 Teil 11			
	Algae toxicity	NOEC mg/l	5400	5 d	Skeletonema costatum	Environ Toxicol Chem 8(5):451-455. (1989	Study to determine the sensitivity of a			
	Crustacea toxicity	NOEC	2 mg/l	10 d	Ceriodaphnia dubia	Arch Environ Contam Toxicol 20(2):211-21	Follows the basic methodology for the th			
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			

12.2. Persistence and degradability

There are no data available on the mixture itself.

12.3. Bioaccumulative potential

There are no data available on the mixture itself.



Salpetersäure 10 Vol.-% reinst in Ethanol vergällt

Revision date: 08.06.2022

Product code: 31878

Page 10 of 12

Partition coefficient n-octanol/water

CAS No	Chemical name				Log Pow
64-17-5	ethanol			-0,77	
BCF					
CAS No	Chemical name	BCF	Species	Source	
64-17-5	ethanol	1	Cyprinus carpio	Comparative Biochemi	

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. There are no data available on the mixture itself.

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

Do not allow to enter into surface water or drains.

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. 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 2924			
14.2. UN proper shipping name:	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (ethanol, nitric acid)			
14.3. Transport hazard class(es):	3			
14.4. Packing group:	II			
Hazard label:	3+8			
Classification code:	FC			
Special Provisions:	274			
Limited quantity:	1 L			
Excepted quantity:	E2			
Transport category:	2			
Hazard No:	338			
Tunnel restriction code:	D/E			
Inland waterways transport (ADN)				
14.1. UN number or ID number:	UN 2924			
14.2. UN proper shipping name:	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (ethanol, nitric acid)			
14.3. Transport hazard class(es):	3			
14.4. Packing group:	II			

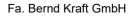


Salpetersäure 10 Vol% reinst in Ethanol vergällt				
Revision date: 08.06.2022	Product code: 31878	Page 11 of 12		
Hazard label:	3+8			
Classification code:	FC			
Special Provisions:	274			
Limited quantity:	1 L			
Excepted quantity:	E2			
Marine transport (IMDG)				
14.1. UN number or ID number:	UN 2924			
14.2. UN proper shipping name:	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (ethanol, Nitric acid)			
14.3. Transport hazard class(es):	3			
14.4. Packing group:	II			
Hazard label:	3+8			
Special Provisions:	274			
Limited quantity:	1 L			
Excepted quantity:	E2			
EmS:	F-E, S-C			
Air transport (ICAO-TI/IATA-DGR)				
14.1. UN number or ID number:	UN 2924			
14.2. UN proper shipping name:	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (ethanol, Nitric acid)			
14.3. Transport hazard class(es):	3			
14.4. Packing group:	II			
Hazard label:	3+8			
Special Provisions:	A3			
Limited quantity Passenger:	0.5 L			
Passenger LQ:	Y340			
Excepted quantity:	E2			
IATA-packing instructions - Passenger:	352			
IATA-max. quantity - Passenger:	1L			
IATA-packing instructions - Cargo:	363			
IATA-max. quantity - Cargo:	5 L			
14.5. Environmental hazards				
ENVIRONMENTALLY HAZARDOUS:	No			
SECTION 15: Regulatory information				
15.1. Safety, health and environmental requ	lations/legislation specific for the substance or mixture			
EU regulatory information				
Restrictions on use (REACH, annex XVII): Entry 3, Entry 40				
National regulatory information				
Water hazard class (D):	1 - slightly hazardous to water			
SECTION 16: Other information				
Changes				

This data sheet contains changes from the previous version in section(s): 1,4,8,9,11,12,13.

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
Flam. Liq. 2; H225	On basis of test data
Skin Corr. 1B; H314	Calculation method
Eye Dam. 1; H318	Calculation method





according to Regulation (EC) No 1907/2006

Salpetersäure 10 Vol.-% reinst in Ethanol vergällt

Revision date: 08.06.2022

Product code: 31878

Page 12 of 12

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H272	May intensify fire; oxidiser.
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
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.

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