

Multielement-Standard 4	l Elemente mit 30 ml/l Salpetersä 96%	ure 70% und 50 ml/l Schwefelsa	iure					
Revision date: 28.08.2024	Product code: 34884		Page 1 of 15					
SECTION 1: Identification of the substance/mixture and of the company/undertaking								
1.1. Product identifier								
Multielement-Standard 4 Eleme	nte mit 30 ml/l Salpetersäure 70% und 50	) ml/l Schwefelsäure 96%						
UFI:	JYK3-73K5-U00H-6SAS							
1.2. Relevant identified uses of the su	bstance or mixture and uses advised a	<u>igainst</u>						
<b>Uses advised against</b> Do not use for private purposes								
	, ,							
<b><u>1.3. Details of the supplier of the safe</u></b> Company name:	AnalytiChem GmbH ACD							
Street: Place:	Stempelstraße 6 D-47167 Duisburg							
Telephone: E-mail:	0203/5194-0 info@analytichem.de	Telefax: 0203/5194-290						
Contact person: E-mail: Internet: Responsible Department:	Abteilung Produktsicherheit produktsicherheit@analytichem.de www.analytichem.de Abteilung Produktsicherheit	Telephone: 0203/5194-107/117						
1.4. Emergency telephone number:For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire, 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)								
<b>Further Information</b> This product is a mixture. REAC								

# **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

# Regulation (EC) No 1272/2008

Met. Corr. 1; H290 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1; H317

Full text of hazard statements: see SECTION 16.

# 2.2. Label elements

# Regulation (EC) No 1272/2008

Hazard components for labelling sulphuric acid nitric acid nickel dinitrate

Signal word:

Danger



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Pictograms:		
Hazard statements		
H290	May be corrosive to metals.	
H314	Causes severe skin burns and eye damage.	
H317	May cause an allergic skin reaction.	
Precautionary stateme	nts	
P260	Do not breathe dust/fume/gas/mist/vapours/spray.	
P280	Wear protective gloves/protective clothing and eye protection/face 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 cer	tain 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	Quantity		
	EC No	Index No	REACH No	
	Classification (Regulation (EC			
7664-93-9	sulphuric acid			5 - < 10 %
	231-639-5	016-020-00-8	01-2119458838-20	
	Met. Corr. 1, Skin Corr. 1A, E	ye Dam. 1; H290 H314 H318		
7697-37-2	nitric acid	1 - < 5 %		
	231-714-2	007-030-00-3	01-2119487297-23	
	Ox. Liq. 3, Met. Corr. 1, Acute			
13138-45-9	nickel dinitrate	< 0.1 %		
	236-068-5	028-012-00-1	01-2119492333-38	
	Ox. Sol. 2, Carc. 1A, Muta. 2 Resp. Sens. 1, Skin Sens. 1, H360D H332 H302 H315 H3			

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



# according to Regulation (EC) No 1907/2006

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# Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity		
	Specific Conc.	Limits, M-factors and ATE			
7664-93-9	231-639-5	sulphuric acid	5 - < 10 %		
	oral: LD50 = 2 <sup>,</sup> Eye Irrit. 2; H31	140 mg/kg   Skin Corr. 1A; H314: >= 15 - 100   Skin Irrit. 2; H315: >= 5 - < 15 9: >= 5 - < 15			
7697-37-2	231-714-2	nitric acid	1 - < 5 %		
	inhalation: ATE 2,65 mg/l (vapours) Ox. Liq. 3; H272: >= 65 - 100 Skin Corr. 1A; H314: >= 20 - 100 Skin Corr. 1B; H314: >= 5 - < 20				
13138-45-9	236-068-5	nickel dinitrate	< 0.1 %		
	361,9 mg/kg S	•			

# **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. Do NOT induce vomiting. Do not allow a neutralisation agent to be drunk. Call a physician immediately.

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

Causes burns. Irritant Cough Dyspnoea Vomiting Methaemoglobinaemia Risk of serious damage to eyes. Allergic reactions

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

No data available



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# **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) Sulphur oxides

#### 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, 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

Do not breathe vapour/aerosol. 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.

#### 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). Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal.

## 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.



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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.

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

## Further information on storage conditions

Keep container tightly closed.

# 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
7697-37-2	Nitric acid	1	2.6		STEL (15 min)	
7664-93-9	Sulphuric acid	-	0.05		TWA (8 h)	



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# **DNEL/DMEL** values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
7664-93-9	sulphuric acid			
Worker DNEL,	long-term	inhalation	local	0,05 mg/m³
Worker DNEL,	acute	inhalation	local	0,1 mg/m³
13138-45-9	nickel dinitrate			
Consumer DNI	EL, acute	oral	systemic	0,012 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,02 mg/kg bw/day
Worker DNEL,	acute	inhalation	systemic	104 mg/m <sup>3</sup>
Worker DNEL, acute		inhalation	local	1,6 mg/m³
Consumer DNEL, acute		inhalation	systemic	8,8 mg/m³
Consumer DN	EL, acute	inhalation	local	0,1 mg/m³

# **PNEC** values

CAS No	Substance		
Environmen	tal compartment	Value	
7664-93-9	sulphuric acid		
Freshwater		0,003 mg/l	
Marine wate	r	0 mg/l	
Freshwater	sediment	0,002 mg/kg	
Marine sedir	nent	0,002 mg/kg	
Micro-organ	isms in sewage treatment plants (STP)	8,8 mg/l	
13138-45-9	nickel dinitrate		
Freshwater		0,0071 mg/l	
Freshwater	(intermittent releases)	0 mg/l	
Marine wate	r	0,0086 mg/l	
Freshwater	sediment	109 mg/kg	
Marine sedir	nent	109 mg/kg	
Secondary poisoning 0,12 m			
Micro-organisms in sewage treatment plants (STP) 0,33 mg			
Soil		29,9 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



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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 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.

# Thermal hazards

No data available

# 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:	like: Nitric acid	
Odour threshold:	No data available	
Melting point/freezing point:		No data available
Boiling point or initial boiling point and		No data available
boiling range:		
Flammability:		No data available
Lower explosion limits:		No data available
Upper explosion limits:		No data available
Flash point:		No data available
Auto-ignition temperature:		No data available
Decomposition temperature:		No data available
pH-Value:		0
Viscosity / kinematic:		No data available
Water solubility:		completely miscible
Solubility in other solvents		
No data available		



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Dissolution rate:	No data available				
Partition coefficient n-octanol/water:	No data available				
Dispersion stability:	No data available				
Vapour pressure:	No data available				
Vapour pressure:	No data available				
Density:	1,0708 g/cm³				
Relative density:	No data available				
Bulk density:	No data available				
Relative vapour density:	No data available				
Particle characteristics:	No data available				
9.2. Other information					
Information with regard to physical hazard cl	asses				
Explosive properties					
No data available					
Sustaining combustion:	No data available				
Self-ignition temperature					
Solid:	No data available				
Gas:	No data available				
Oxidizing properties					
Oxidising agent					
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 40. Stability and mostivity					
SECTION 10: Stability and reactivity					

#### 10.1. Reactivity

Corrosive to metals. Oxidising agent

# 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

# 10.3. Possibility of hazardous reactions

# Alkali (lye)

The product develops hydrogen in an aqueous solution in contact with metals. Amines, Ammonia, Alcohols, Alkali metals, Hydrogen peroxide Copper, Combustible solids, Solvent, Alkaline earth metal, mercury (Hg).

# 10.4. Conditions to avoid

No data available

# 10.5. Incompatible materials

Cellulose



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Metal

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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

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

#### ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 50 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name	Chemical name							
	Exposure route	Dose		Species	Source	Method			
7664-93-9	sulphuric acid	sulphuric acid							
	oral	LD50 mg/kg	2140	Rat	Am Ind Hyg Assoc J. 1969 Sep-Oct; 30(5):	The study was performed as part of a ser			
7697-37-2	nitric acid								
	inhalation vapour	ATE 2,6	5 mg/l						
13138-45-9	nickel dinitrate								
	oral	LD50 mg/kg	361,9	Rat	Regul Toxicol and Pharmacol (doi.org/10.	OECD Guideline 425			
	inhalation vapour	ATE	11 mg/l						
	inhalation dust/mist	ATE	1,5 mg/l						

#### 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.

Following ingestion Gastric perforation

Irritating to respiratory system.

Pulmonary oedema

see also Section 4

# Sensitising effects

May cause an allergic skin reaction. (nickel dinitrate)

#### 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.



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<b>STOT-repeated exposure</b> Based on available data, the classifica <b>Aspiration hazard</b> Based on available data, the classifica		
Information on likely routes of exposure There are no data available on the pre		
Specific effects in experiment on an ani There are no data available on the pre		
Additional information on tests There are no data available on the pre	eparation/mixture itself.	
<b>Practical experience</b> There are no data available on the pre	eparation/mixture itself.	
11.2. Information on other hazards		
Endocrine disrupting properties There are no data available on the pre	eparation/mixture itself.	
<b>Other information</b> There are no data available on the pre	eparation/mixture itself.	
<b>Further information</b> There are no data available on the pre	eparation/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			
7664-93-9	sulphuric acid									
	Acute algae toxicity	ErC50 mg/l	> 100	72 h	Desmodesmus subspicatus	Study report (2009)	OECD Guideline 201			
	Acute crustacea toxicity	EC50 mg/l	> 100	48 h	Daphnia magna	Study report (2009)	OECD Guideline 202			
	Fish toxicity	NOEC mg/l	0,025	65 d	Jordanella floridae	Water Research Vol. 11, 612 - 626, 1977	Groups of sexually mature flagfish			
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			
13138-45-9	nickel dinitrate									
	Acute fish toxicity	LC50 mg/l	15,3	96 h	Oncorhynchus mykiss	Aquatic Toxicology 63 (2003) 65-82 (2003	other: not reported			
	Acute algae toxicity	ErC50 mg/l	0,237	72 h	Ankistrodesmus falcatus	Publication (2009)	OECD Guideline 201			
	Acute crustacea toxicity	EC50 mg/l	0,2663	48 h	Ceriodaphnia dubia	Study report (2004)	other: American society of testing and m			
	Fish toxicity	NOEC mg/l	0,057	32 d	Pimephales promelas	Water Resources Research Institute. Kent	other: ASTM 1980, E-729			
	Algae toxicity	NOEC	0,6 mg/l	14 d	Anabaena cylindrica	Environ. Pollut. (Series A). 25(4):241-2	other: not reported			
	Crustacea toxicity	NOEC mg/l	0,04	42 d	Daphnia magna	Wat. Res. 24(7):845-852 (1990)	Chronic exposure to sublethal concentrat			
	Acute bacteria toxicity	EC50 )	33 mg/l (	0,5 h	Activated sludge	Journal of Hazardous Materials. B139:332	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.



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BCF				
CAS No	Chemical name	BCF	Species	Source
13138-45-9	nickel dinitrate	23	Spirodela polyrhiza	Ecotoxicology and en

# 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. 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 3264
14.2. UN proper shipping name:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (sulphuric acid, nitric
	acid)
14.3. Transport hazard class(es):	8
14.4. Packing group:	II
Hazard label:	8
Classification code:	C1
Special Provisions:	274
Limited quantity:	1 L
Excepted quantity:	E2
Transport category:	2
Hazard No:	80
Tunnel restriction code:	E
Inland waterways transport (ADN)	
14.1. UN number or ID number:	UN 3264
14.2. UN proper shipping name:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (sulphuric acid, nitric
	acid)
14.3. Transport hazard class(es):	8
14.4. Packing group:	II
Hazard label:	8
Classification code:	C1



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Special Provisions:	274			
Limited quantity:	1 L			
Excepted quantity:	E2			
Marine transport (IMDG)				
<u>14.1. UN number or ID number:</u>	UN 3264			
14.2. UN proper shipping name:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (sulphuric acid)	d, nitric		
14.3. Transport hazard class(es):	8			
14.4. Packing group:	II			
Hazard label:	8			
Special Provisions:	274			
Limited quantity:	1 L			
Excepted quantity:	E2			
EmS:	F-A, S-B			
Segregation group:	1 - acids			
Air transport (ICAO-TI/IATA-DGR)				
14.1. UN number or ID number:	UN 3264			
14.2. UN proper shipping name:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (sulphuric acid)	d, nitric		
<u>14.3. Transport hazard class(es):</u>	8			
14.4. Packing group:	II			
Hazard label:	8			
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			
IATA-max. quantity - Cargo:	30 L			
14.5. Environmental hazards				
ENVIRONMENTALLY HAZARDOUS:	No			
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 27

 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).

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

# **SECTION 16: Other information**



according to Regulation (EC) No 1907/2006

# Multielement-Standard 4 Elemente mit 30 ml/l Salpetersäure 70% und 50 ml/l Schwefelsäure

Product code: 34884

96%

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# Abbreviations and acronyms

Ox. Liq: Oxidising liquid Ox. Sol: Oxidising solid Met. Corr: Substance or mixture corrosive to metals Acute Tox: Acute toxicity Skin Corr: Skin corrosion Skin Irrit: Skin irritation Eye Dam: Eye damage Resp. Sens: Respiratory sensitisation Skin Sens: Skin sensitisation Muta: Germ cell mutagenicity Carc: Carcinogenicity Repr: Reproductive toxicity STOT RE: Specific target organ toxicity - repeated exposure Aquatic Acute: Acute aquatic hazard Aquatic Chronic: Chronic aquatic hazard

# 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
Skin Corr. 1B; H314	Calculation method
Eye Dam. 1; H318	Calculation method
Skin Sens. 1; H317	Calculation method

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

e	elevant n and EON statements (number and fun text)		
	H272	May intensify fire; oxidiser.	
	H290	May be corrosive to metals.	
	H302	Harmful if swallowed.	
	H314	Causes severe skin burns and eye damage.	
	H315	Causes skin irritation.	
	H317	May cause an allergic skin reaction.	
	H318	Causes serious eye damage.	
	H331	Toxic if inhaled.	
	H332	Harmful if inhaled.	
	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
	H341	Suspected of causing genetic defects.	
	H350i	May cause cancer by inhalation.	
	H360D	May damage the unborn child.	
	H372	Causes damage to organs through prolonged or repeated exposure.	
	H400	Very toxic to aquatic life.	
	H410	Very toxic to aquatic life with long lasting effects.	
	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



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