

Reagent solution (R) with Fe(NO3)3 and Hg(SCN)2 for determination of chloride (CFA/FIA) according to Revision date: 03.04.2024 Product code: 18904 Page 1 of 16 SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier Reagent solution (R) with Fe(NO3)3 and Hg(SCN)2 for determination of chloride (CFA/FIA) according to 1.2. Relevant identified uses of the substance or mixture and uses advised against Use of the substance/mixture Laboratory chemicals Industrial uses: Uses of substances as such or in preparations at industrial sites Professional uses: Public domain (administration, education, entertainment, services, craftsmen) Uses advised against Do not use for private purposes (household). 1.3. Details of the supplier of the safety data sheet Company name: AnalytiChem GmbH ACD Street: Stempelstraße 6 Place: D-47167 Duisburg Telephone: 0203/5194-0 Telefax: 0203/5194-290 E-mail: info@analytichem.de Contact person: Abteilung Produktsicherheit Telephone: 0203/5194-107/117 E-mail: produktsicherheit@analytichem.de www.analytichem.de Internet: Abteilung Produktsicherheit **Responsible Department:** 1.4. Emergency telephone For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: number: 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 Flam. Liq. 3; H226 Acute Tox. 4; H302 Acute Tox. 4; H332 STOT SE 1; H370

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling

methanol nitric acid

Signal word:

Pictograms:







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Hazard statements		
H226	Flammable liquid and vapour.	
H302+H332	Harmful if swallowed or if inhaled.	
H370	Causes damage to organs.	
Precautionary statemer	nts	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	
P260	Do not breathe dust/fume/gas/mist/vapours/spray.	
P308+P311	IF exposed or concerned: Call a POISON CENTER/doctor.	

P403+P235 Store in a well-ventilated place. Keep cool.

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Relevant ingredients

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No	1272/2008)		
67-56-1	methanol		10 - < 15 %	
	200-659-6	603-001-00-X	01-2119433307-44	
	Flam. Liq. 2, Acute Tox. 3, Acute 1	25 H331 H311 H301 H370		
7782-61-8	Iron(III) nitrate nonahydrate			1 - < 5 %
	233-899-5			
	Ox. Sol. 3, Skin Irrit. 2, Eye Irrit. 2;	H272 H315 H319		
7697-37-2	nitric acid		< 1 %	
	231-714-2	007-030-00-3	01-2119487297-23	
	Ox. Liq. 3, Met. Corr. 1, Acute Tox	H314 EUH071		

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity					
	Specific Conc.	Specific Conc. Limits, M-factors and ATE						
67-56-1	200-659-6	methanol	10 - < 15 %					
	inhalation: LC50 = 128,2 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); dermal: ATE = 300 mg/kg; oral: LD50 = 6000 mg/kg_STOT SE 1; H370: >= 10 - 100_STOT SE 2; H371: >= 3 - < 10							
7782-61-8	233-899-5	Iron(III) nitrate nonahydrate	1 - < 5 %					
	dermal: LD50	= > 2000 mg/kg; oral: LD50 = > 2000 mg/kg						
7697-37-2	231-714-2	nitric acid	< 1 %					
		E 2,65 mg/l (vapours) Ox. Liq. 3; H272: >= 65 - 100 Skin Corr. 1A; H314: >= 20 orr. 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



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General information

First aider: Pay attention to self-protection!

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

After eye contact: Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.

After ingestion

Provide fresh air. Call a physician immediately. Notes for the doctor : Methanol

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

Irritant, Dizziness Dizziness, Anaesthetic state Agitation, Spasms Inebriation, Vomiting Headache, Impairment of vision Repeated exposure may cause skin dryness or cracking.

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

Water spray jet, Carbon dioxide (CO2), Foam, Extinguishing powder.

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: Carbon dioxide, Carbon monoxide Nitrogen oxides (NOx), Mercury and mercury compounds Vapours are heavier than air, spread along floors and form explosive mixtures with air.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Wear full chemical protective clothing. In case of fire and/or explosion do not breathe fumes.

Additional information

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

SECTION 6: Accidental release measures



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6.1. Personal precautions, protective equipment and emergency procedures

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.

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 uncontrolled discharge of product into the environment. Danger of explosion

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

Avoid exposure - obtain special instructions before use. 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).

Do not breathe gas/fumes/vapour/spray. Provide adequate ventilation.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.



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Vapours can form explosive mixtures with air.

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.

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 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. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints on joint storage

Do not store together with: Oxidising agent. Pyrophoric or self-heating substances.

Further information on storage conditions

Keep cool. Protect from sunlight.

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
67-56-1	Methyl alcohol	200	260		TWA (8 h)	
7697-37-2	Nitric acid	1	2.6		STEL (15 min)	

Biological limit values

CAS No	Substance	Parameter	Value	Test material	Sampling time
67-56-1	Methanol	Methanol	15 mg/L	Urine	End of shift



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DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
67-56-1	methanol			
Consumer DN	IEL, acute	inhalation	systemic	50 mg/m³
Worker DNEL	, long-term	inhalation	systemic	260 mg/m³
Worker DNEL	, acute	inhalation	systemic	260 mg/m ³
Worker DNEL	, long-term	inhalation	local	260 mg/m³
Worker DNEL	., acute	inhalation	local	260 mg/m³
Worker DNEL	, long-term	dermal	systemic	40 mg/kg bw/day
Worker DNEL	., acute	dermal	systemic	40 mg/kg bw/day
Consumer DN	IEL, long-term	inhalation	systemic	50 mg/m³
Consumer DN	IEL, long-term	inhalation	local	50 mg/m³
Consumer DN	IEL, acute	inhalation	local	50 mg/m³
Consumer DN	IEL, long-term	dermal	systemic	8 mg/kg bw/day
Consumer DN	IEL, acute	dermal	systemic	8 mg/kg bw/day
Consumer DN	IEL, long-term	oral	systemic	8 mg/kg bw/day
Consumer DN	IEL, acute	oral	systemic	8 mg/kg bw/day
7782-61-8	Iron(III) nitrate nonahydrate			
Worker DNEL	, long-term	inhalation	systemic	12 mg/m³
Worker DNEL, long-term		dermal	systemic	17 mg/kg bw/day
Consumer DN	IEL, long-term	inhalation	systemic	3 mg/m³
Consumer DN	IEL, long-term	dermal	systemic	8,6 mg/kg bw/day
Consumer DN	IEL, long-term	oral	systemic	1,2 mg/kg bw/day



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PNEC values

CAS No	Substance	
Environmen	tal compartment	Value
67-56-1	methanol	
Freshwater		20,8 mg/l
Freshwater	(intermittent releases)	1540 mg/l
Marine wate	r	2,08 mg/l
Freshwater	sediment	77 mg/kg
Marine sedi	ment	7,7 mg/kg
Micro-organ	100 mg/l	
Soil		100 mg/kg
7782-61-8	Iron(III) nitrate nonahydrate	
Freshwater		0,024 mg/l
Freshwater	(intermittent releases)	0,24 mg/l
Marine wate	r	0,002 mg/l
Freshwater	sediment	0,2 mg/kg
Marine sedi	0,02 mg/kg	
Micro-organ	isms in sewage treatment plants (STP)	500 mg/l
Soil		0,026 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

Eye/face protection

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 897 Butoject® Recommended material: Butyl caoutchouc (butyl rubber) 0,3 mm Wearing time with permanent contact: > 480 min

By short-term hand contact Trade name/designation: KCL 890 Vitoject® Recommended material: FKM (fluoro rubber) 0,7 mm Wearing time with occasional contact (splashes): > 120 min



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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

Flame-retardant protective clothing. Wear anti-static footwear and clothing 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

Respiratory protection necessary at: aerosol or mist formation

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

9.1	. Information on pasic physical and cher	nical properties	
	Physical state:	Liquid	
	Colour:	clear	
	Odour:	characteristic	
	Odour threshold:	No data available	
	Melting point/freezing point:		No data available
	Boiling point or initial boiling point and		>35 °C
	boiling range:		
	Flammability:		not applicable
	Lower explosion limits:		No data available
	Upper explosion limits:		No data available
	Flash point:		>23 °C
	Auto-ignition temperature:		No data available
	Decomposition temperature:		No data available
	pH-Value:		not determined
	Viscosity / kinematic:		No data available
	Water solubility:		No data available
	Solubility in other solvents		
	not determined		
	Partition coefficient n-octanol/water:		No data available
	Vapour pressure:		No data available
	Vapour pressure:		No data available
	Density:		1,005 g/cm³
	Bulk density:		No data available
	Relative vapour density:		No data available
<u>9.2</u>	2. Other information		
	Information with regard to physical haza	ard classes	
	Explosive properties		
	Vapours can form explosive mixtures	with air.	
	Sustaining combustion:		Sustaining combustion



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Self-ignition temperature							
Solid:	not applicable						
Gas:	not applicable						
Oxidizing properties							
No data available							
Other safety characteristics							
Evaporation rate:	No data available						
Solvent separation test:	No data available						
Solvent content:	No data available						
Solid content:	No data available						
Sublimation point:	No data available						
Softening point:	No data available						
Pour point:	No data available						
No data available:							
Viscosity / dynamic: (at °C)	No data available						
Flow time:	No data available						
Further Information							
No data available							

SECTION 10: Stability and reactivity

10.1. Reactivity

Vapours can form explosive mixtures with air.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.4. Conditions to avoid

Vapours can form explosive mixtures with air. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5. Incompatible materials

Plastic articles 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

Avoid exposure - obtain special instructions before use.

Acute toxicity

Harmful if swallowed. Harmful if inhaled.

ATEmix calculated

ATE (oral) 826,4 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) 4,026 mg/l



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CAS No	Chemical name	Chemical name							
	Exposure route	Dose		Species	Source	Method			
67-56-1	methanol								
	oral	LD50 mg/kg	6000	Monkey	Amer J Ophthalmol 40: 76-83 (cited in DG	Determination of the acute toxicity of t			
	dermal	ATE mg/kg	300						
	inhalation (4 h) vapour	LC50 mg/l	128,2	Rat	Study report (1980)	Study performed according to internal co			
	inhalation dust/mist	ATE	0,5 mg/l						
7782-61-8	Iron(III) nitrate nonahydr	ate							
	oral	LD50 mg/kg	> 2000	Rat	Study report (2002)	OECD Guideline 401			
	dermal	LD50 mg/kg	> 2000	Rat	Study report (2004)	OECD Guideline 402			
7697-37-2	nitric acid								
	inhalation vapour	ATE 2,65	5 mg/l						

Irritation and corrosivity

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

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

Causes damage to organs. (methanol) (eyes)

STOT-repeated exposure

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

Aspiration hazard

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

Specific effects in experiment on an animal

There are no data available on the mixture itself.

Additional information on tests

There are no data available on the mixture itself.

Practical experience

There are no data available on the mixture itself.

11.2. Information on other hazards

Other information Irritation to respiratory tract Repeated exposure may cause skin dryness or cracking. Causes damage to organs. Organs affected: Liver and kidney damage eyes heart Irreversible damage to the optic nerve.



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Further information

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Irritant, Dizziness, Dizziness, Anaesthetic state, Agitation, Spasms, Inebriation, Vomiting, Headache, Impairment of vision

Repeated exposure may cause skin dryness or cracking.

SECTION 12: Ecological information

12.1. Toxicity

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



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CAS No	o Chemical name							
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method	
67-56-1	methanol							
	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/	ca. I	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	
	Fish toxicity	NOEC mg/l	446,7	28 d	Pimephales promelas	SAR and QSAR in Environmental Research,	Calculation performed with ECOSAR	
	Crustacea toxicity	NOEC	208 mg/l	21 d	Daphnia magna	OECD QSAR Toolbox Report (2013)	Toxicity of the target chemical is predi	
7782-61-8	Iron(III) nitrate nonahydra	te						
	Acute fish toxicity	LC50 mg/l	1010	96 h	Pimephales promelas	Scott, G. & Crunkilton, R. (2000). Acute	The study was not carried out to any spe	
	Acute algae toxicity	ErC50	130 mg/l	72 h	Pseudokirchneriella subcapitata	Study report (2002)	OECD Guideline 201	
	Acute crustacea toxicity	EC50	611 mg/l	48 h	Daphnia magna	Scott, G. & Crunkilton, R. (2000). Acute	The study was not carried out to any spe	
	Fish toxicity	NOEC	1,6 mg/l	146 d	Salvelinus namaycush	McGurk, M., Landry, F., Tang, A. & Hanks	No specifc guideline followed. However,	
	Crustacea toxicity	NOEC	8,1 mg/l	21 d	Daphnia magna	Study report (2002)	OECD Guideline 211	
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		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.



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Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
67-56-1	methanol	-0,77
BCE		

BCF

CAS No	Chemical name	BCF	Species	Source
67-56-1	methanol	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.

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

Avoid release to the environment.

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 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 1993	
14.2. UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. (methanol)	
14.3. Transport hazard class(es):	3	
14.4. Packing group:	111	
Hazard label:	3	
Classification code:	F1	
Special Provisions:	274 601	
Limited quantity:	5 L	
Excepted quantity:	E1	
Transport category:	3	
Hazard No:	30	
Tunnel restriction code:	D/E	
Inland waterways transport (ADN)		
14.1. UN number or ID number:	UN 1993	
14.2. UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. (methanol)	
14.3. Transport hazard class(es):	3	



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14.4. Packing group:			
Hazard label:	3		
Classification code:	F1		
Special Provisions:	274 601		
Limited quantity:	5 L		
Excepted quantity:	E1		
Marine transport (IMDG)			
<u>14.1. UN number or ID number:</u>	UN 1993		
14.2. UN proper shipping name:		JID, N.O.S. (methanol)	
14.3. Transport hazard class(es):	3	,, ,	
14.4. Packing group:	ŰI		
Hazard label:	3		
Special Provisions:	223, 274, 955		
Limited quantity:	5 L		
Excepted quantity:	E1		
EmS:	F-E, S-E		
Air transport (ICAO-TI/IATA-DGR)	,		
14.1. UN number or ID number:	UN 1993		
14.2. UN proper shipping name:		JID, N.O.S. (methanol)	
14.3. Transport hazard class(es):	3		
14.4. Packing group:	UI		
Hazard label:	3		
Special Provisions:	A3		
Limited quantity Passenger:	10 L		
Passenger LQ:	Y344		
Excepted quantity:	E1		
IATA-packing instructions - Passenger:		355	
IATA-max. quantity - Passenger:		60 L	
IATA-packing instructions - Cargo:		366	
IATA-max. quantity - Cargo:		220 L	
14.5. Environmental hazards			
ENVIRONMENTALLY HAZARDOUS:	No		
14.6. Special precautions for user			
Warning: Combustible liquid. Toxic.			
14.7. Maritime transport in bulk according t	o IMO instruments		
not applicable			
SECTION 15: Regulatory information			
15.1. Safety, health and environmental regu	lations/legislation s	pecific for the substance or mixture	
EU regulatory information			
Restrictions on use (REACH, annex XVII)			
Entry 3, Entry 40, Entry 69			
Information according to Directive 2012/18/EU (SEVESO III):		C TARGET ORGAN TOXICITY - SINGLE EXP	JOUKE
Additional information:	P5c		
Marketing and use of explosives precurso	rs (Regulation (EU) 2	()19/1148)	

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

This product is regulated 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



Reagent solution (R) with Fe(NO3)3 and Hg(SCN)2 for determination of chloride (CFA/FIA)

according to			
Product code: 18904	Page 15 of 16		
Observe restrictions to employment for juveniles accordin work protection guideline' (94/33/EC). Observe employme under the Maternity Protection Directive (92/85/EEC) for e nursing mothers.	ent restrictions		
2 - obviously hazardous to water Permeates easily through outer skin and causes poisonin	g.		
	Product code: 18904 Observe restrictions to employment for juveniles accordin work protection guideline' (94/33/EC). Observe employme under the Maternity Protection Directive (92/85/EEC) for e nursing mothers. 2 - obviously hazardous to water		

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 9,12.

Abbreviations and acronyms

Ox. Liq: Oxidising liquid	
Ox. Sol: Oxidising solid	
Met. Corr: Substance or mixture corrosive to metals	
Flam. Liq: Flammable liquid	
Acute Tox: Acute toxicity	
Skin Corr: Skin corrosion	
Skin Irrit: Skin irritation	
Eye Irrit: Eye irritation	
STOT SE: Specific target organ toxicity - single exposure	
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
Flam. Liq. 3; H226	On basis of test data
Acute Tox. 4; H302	Calculation method
Acute Tox. 4; H332	Calculation method
STOT SE 1; H370	Calculation method

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.		
H226	Flammable liquid and vapour.		
H272	May intensify fire; oxidiser.		
H290	May be corrosive to metals.		
H301	Toxic if swallowed.		
H302	Harmful if swallowed.		
H302+H332	Harmful if swallowed or if inhaled.		
H311	Toxic in contact with skin.		
H314	Causes severe skin burns and eye damage.		
H315	Causes skin irritation.		
H319	Causes serious eye irritation.		
H331	Toxic if inhaled.		



Reagent solution (R) with Fe(NO3)3 and Hg(SCN)2 for determination of chloride (CFA/FIA)

according to Regulation (EC) No 1907/2006

according to

Revision date: 03.04.2024

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Harmful if inhaled.
Causes damage to organs.
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 relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)