

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

Mischlösung je 200g/l KCl und NH<sub>4</sub>SCN und 30g/l Co(NO<sub>3</sub>)<sub>2</sub>·6H<sub>2</sub>O in Wasser

Revision date: 13.05.2024

Product code: 22177

Page 1 of 12

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**Mischlösung je 200g/l KCl und NH<sub>4</sub>SCN und 30g/l Co(NO<sub>3</sub>)<sub>2</sub>·6H<sub>2</sub>O in Wasser**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	
Internet:	www.analytichem.de	
Responsible Department:	Abteilung Produktsicherheit	

**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)

**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**

Eye Dam. 1; H318

Carc. 1B; H350i

Repr. 1B; H360F

Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

**2.2. Label elements****Regulation (EC) No 1272/2008****Hazard components for labelling**

ammonium thiocyanate

cobalt dinitrate

**Signal word:** Danger**Pictograms:**

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Mischlösung je 200g/l KCl und NH<sub>4</sub>SCN und 30g/l Co(NO<sub>3</sub>)<sub>2</sub>x6H<sub>2</sub>O in Wasser**

Revision date: 13.05.2024

Product code: 22177

Page 2 of 12

**Hazard statements**

H318	Causes serious eye damage.
H350i	May cause cancer by inhalation.
H360F	May damage fertility.
H411	Toxic to aquatic life with long lasting effects.

**Precautionary statements**

P201	Obtain special instructions before use.
P273	Avoid release to the environment.
P280	Wear protective gloves and eye protection/face protection.
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+P313	IF exposed or concerned: Get medical advice/attention.

**Special labelling of certain mixtures**

EUH032	Contact with acids liberates very toxic gas.
EUH208	Contains cobalt dinitrate. May produce an allergic reaction. Restricted to professional users.

**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) No 1272/2008)			
1762-95-4	ammonium thiocyanate			15 - < 20 %
	217-175-6	615-004-00-3	01-2119543696-28	
	Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Eye Dam. 1, Aquatic Chronic 3; H332 H312 H302 H318 H412 EUH032			
10141-05-6	cobalt dinitrate			< 1 %
	233-402-1	027-009-00-2		
	Carc. 1B, Muta. 2, Repr. 1B, Resp. Sens. 1, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; H350i H341 H360F H334 H317 H400 H410			

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. Limits, M-factors and ATE	
1762-95-4	217-175-6	ammonium thiocyanate	15 - < 20 %
		inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = > 2000 mg/kg; oral: LD50 = 508 mg/kg	
10141-05-6	233-402-1	cobalt dinitrate	< 1 %
		Carc. 1B; H350i: >= 0,01 - 100 Aquatic Acute 1; H400: M=10 Aquatic Chronic 1; H410: M=10	

**Further Information**

No data available

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Mischlösung je 200g/l KCl und NH<sub>4</sub>SCN und 30g/l Co(NO<sub>3</sub>)<sub>2</sub>x6H<sub>2</sub>O in Wasser

Revision date: 13.05.2024

Product code: 22177

Page 3 of 12

#### SECTION 4: First aid measures

##### 4.1. Description of first aid measures

###### General information

Self-protection of the first aider

###### 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.

Protect uninjured eye.

###### After ingestion

Rinse mouth immediately and drink plenty of water.

Call a physician immediately.

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

Irritant

Vomiting

Allergic reactions

Gastrointestinal complaints

Circulatory collapse

Blood pressure drop

Spasms

Narcotic effects

Respiratory complaints

Dyspnoea

Release of: Hydrogen cyanide (hydrocyanic acid)

##### 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

Non-combustible liquids

Hazardous combustion products

In case of fire may be liberated:

Nitrogen oxides (NO<sub>x</sub>)

Sulphur oxides

Ammonia (NH<sub>3</sub>)

Hydrogen cyanide (hydrocyanic acid)

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Mischlösung je 200g/l KCl und NH<sub>4</sub>SCN und 30g/l Co(NO<sub>3</sub>)<sub>2</sub>x6H<sub>2</sub>O in Wasser

Revision date: 13.05.2024

Product code: 22177

Page 4 of 12

#### **5.3. Advice for firefighters**

- Do not inhale explosion and combustion gases.
- Avoid contact with skin, eyes and clothes.
- In case of fire: Wear self-contained breathing apparatus.

#### **Additional information**

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

## SECTION 6: Accidental release measures

### **6.1. Personal precautions, protective equipment and emergency procedures**

#### **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).
- 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. Avoid contact with skin, eyes and clothes.
- Provide adequate ventilation. Do not breathe vapour/aerosol.
- Use extractor hood (laboratory).

#### **Advice on protection against fire and explosion**

- Usual measures for fire prevention.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Mischlösung je 200g/l KCl und NH<sub>4</sub>SCN und 30g/l Co(NO<sub>3</sub>)<sub>2</sub>x6H<sub>2</sub>O in Wasser**

Revision date: 13.05.2024

Product code: 22177

Page 5 of 12

**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**

Store in a well-ventilated place. Keep container tightly closed.  
Protect against: Light

**Hints on joint storage**

TRGS 510

**Further information on storage conditions**

Store in a dry place.

**7.3. Specific end use(s)**

Laboratory chemicals

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

**8.1. Control parameters**

**DNEL/DMEL values**

CAS No	Substance	Exposure route	Effect	Value
1762-95-4	ammonium thiocyanate			
Worker DNEL, long-term		inhalation	systemic	2,8 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	4 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0,7 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	2 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,2 mg/kg bw/day

**PNEC values**

CAS No	Substance	Value
1762-95-4	ammonium thiocyanate	
Freshwater		0,095 mg/l
Freshwater (intermittent releases)		0,027 mg/l
Marine water		0,009 mg/l
Freshwater sediment		0,543 mg/kg
Marine sediment		0,054 mg/kg
Secondary poisoning		1,667 mg/kg
Micro-organisms in sewage treatment plants (STP)		30 mg/l
Soil		6,336 mg/kg

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Mischlösung je 200g/l KCl und NH<sub>4</sub>SCN und 30g/l Co(NO<sub>3</sub>)<sub>2</sub>x6H<sub>2</sub>O in Wasser**

Revision date: 13.05.2024

Product code: 22177

Page 6 of 12

**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 vapour/aerosol.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection**

goggles

**Hand protection**

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

By long-term hand contact

Trade name/designation: KCL 741 Dermatril® L

Suitable material: NBR (Nitrile rubber) 0,11 mm

Wearing time with permanent contact: > 480 min

By short-term hand contact

Trade name/designation: KCL 741 Dermatril® L

Suitable material: NBR (Nitrile rubber) 0,11 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](http://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 entrepreneur 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.

**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:	dark blue	
Odour:	odourless	
Odour threshold:	No data available	
Melting point/freezing point:		No data available
Boiling point or initial boiling point and boiling range:		No data available
Flammability:		No data available
Lower explosion limits:		No data available

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Mischlösung je 200g/l KCl und NH<sub>4</sub>SCN und 30g/l Co(NO<sub>3</sub>)<sub>2</sub>x6H<sub>2</sub>O in Wasser

Revision date: 13.05.2024

Product code: 22177

Page 7 of 12

Upper explosion limits:	No data available
Flash point:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
pH-Value:	No data available
Viscosity / kinematic:	No data available
Water solubility:	No data available
Solubility in other solvents	
No data available	
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:	1,16984 g/cm <sup>3</sup>
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 classes**

Explosive properties	
No data available	
Sustaining combustion:	No data available
Self-ignition temperature	
Solid:	No data available
Gas:	No data available
Oxidizing properties	
No data available	

##### **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**

No data available

### **SECTION 10: Stability and reactivity**

#### **10.1. Reactivity**

No data available

#### **10.2. Chemical stability**

Protect against: Light

#### **10.3. Possibility of hazardous reactions**

Oxidising agent

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Mischlösung je 200g/l KCl und NH4SCN und 30g/l Co(NO3)2x6H2O in Wasser**

Revision date: 13.05.2024

Product code: 22177

Page 8 of 12

Acid  
Nitrate

**10.4. Conditions to avoid**

Light  
Heat

**10.5. Incompatible materials**

Metal

**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**

**Toxicokinetics, metabolism and distribution**

There are no data available on the mixture itself.

**Acute toxicity**

Based on available data, the classification criteria are not met.  
Contact with acids liberates very toxic gas.

**ATEmix calculated**

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
1762-95-4	ammonium thiocyanate				
	oral	LD50 508 mg/kg	Japanese quail	Study report (1999)	OECD Guideline 401
	dermal	LD50 > 2000 mg/kg	Rat	Study report (2003)	OECD Guideline 402
	inhalation vapour	ATE 11 mg/l			
	inhalation dust/mist	ATE 1,5 mg/l			

**Irritation and corrosivity**

Serious eye damage/eye irritation: Causes serious eye damage.  
Skin corrosion/irritation: Based on available data, the classification criteria are not met.

**Sensitising effects**

Based on available data, the classification criteria are not met.  
Contains cobalt dinitrate. May produce an allergic reaction.

**Carcinogenic/mutagenic/toxic effects for reproduction**

May cause cancer by inhalation. (cobalt dinitrate)  
May damage fertility. (cobalt dinitrate)  
Germ cell mutagenicity: Based on available data, the classification criteria are not met.

**STOT-single exposure**

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

**STOT-repeated exposure**

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

**Aspiration hazard**

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



**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Mischlösung je 200g/l KCl und NH<sub>4</sub>SCN und 30g/l Co(NO<sub>3</sub>)<sub>2</sub>x6H<sub>2</sub>O in Wasser**

Revision date: 13.05.2024

Product code: 22177

Page 9 of 12

**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**

There are no data available on the mixture itself.

**Further information**

- Irritant
- Vomiting
- Gastrointestinal complaints
- Circulatory collapse
- Blood pressure drop
- Spasms
- Narcotic effects
- Respiratory complaints
- Dyspnoea
- Release of: Hydrogen cyanide (hydrocyanic acid)

**SECTION 12: Ecological information**

**12.1. Toxicity**

Toxic to aquatic life with long lasting effects.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
1762-95-4	ammonium thiocyanate					
	Acute fish toxicity	LC50 65 mg/l	96 h	Oncorhynchus mykiss	Study report (1999)	EU Method C.1
	Acute algae toxicity	ErC50 116 mg/l	72 h	Pseudokirchneriella subcapitata	Study report (1999)	OECD Guideline 201
	Acute crustacea toxicity	EC50 3,56 mg/l	48 h	Daphnia magna	Study report (1999)	OECD Guideline 202
	Fish toxicity	NOEC 1,84 mg/l	124 d	Pimephales promelas	Study report (1994)	Test was based on exposing juvenile fath
	Crustacea toxicity	NOEC 1,25 mg/l	21 d	Daphnia magna	Study report (2005)	OECD Guideline 211

**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.

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
1762-95-4	ammonium thiocyanate	-2,29

**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.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

**Mischlösung je 200g/l KCl und NH<sub>4</sub>SCN und 30g/l Co(NO<sub>3</sub>)<sub>2</sub>x6H<sub>2</sub>O in Wasser**

Revision date: 13.05.2024

Product code: 22177

Page 10 of 12

**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 allow to enter into surface water or drains.

**Contaminated packaging**

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.  
Handle contaminated packages in the same way as the substance itself.

**SECTION 14: Transport information****Land transport (ADR/RID)**

<b>14.1. UN number or ID number:</b>	UN 3082
<b>14.2. UN proper shipping name:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (cobalt dinitrate)
<b>14.3. Transport hazard class(es):</b>	9
<b>14.4. Packing group:</b>	III
Hazard label:	9
Classification code:	M6
Special Provisions:	274 335 375 601
Limited quantity:	5 L
Excepted quantity:	E1
Transport category:	3
Hazard No:	90
Tunnel restriction code:	-

**Inland waterways transport (ADN)**

<b>14.1. UN number or ID number:</b>	UN 3082
<b>14.2. UN proper shipping name:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (cobalt dinitrate)
<b>14.3. Transport hazard class(es):</b>	9
<b>14.4. Packing group:</b>	III
Hazard label:	9
Classification code:	M6
Special Provisions:	274 335 375 601
Limited quantity:	5 L
Excepted quantity:	E1

**Marine transport (IMDG)**

<b>14.1. UN number or ID number:</b>	UN 3082
<b>14.2. UN proper shipping name:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (cobalt dinitrate)
<b>14.3. Transport hazard class(es):</b>	9
<b>14.4. Packing group:</b>	III

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Mischlösung je 200g/l KCl und NH<sub>4</sub>SCN und 30g/l Co(NO<sub>3</sub>)<sub>2</sub>x6H<sub>2</sub>O in Wasser**

Revision date: 13.05.2024

Product code: 22177

Page 11 of 12

Hazard label: 9  
 Special Provisions: 274, 335, 969  
 Limited quantity: 5 L  
 Excepted quantity: E1  
 EmS: F-A, S-F

**Air transport (ICAO-TI/IATA-DGR)**

**14.1. UN number or ID number:** UN 3082  
**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (cobalt dinitrate)  
**14.3. Transport hazard class(es):** 9  
**14.4. Packing group:** III  
 Hazard label: 9  
 Special Provisions: A97 A158 A197  
 Limited quantity Passenger: 30 kg G  
 Passenger LQ: Y964  
 Excepted quantity: E1  
 IATA-packing instructions - Passenger: 964  
 IATA-max. quantity - Passenger: 450 L  
 IATA-packing instructions - Cargo: 964  
 IATA-max. quantity - Cargo: 450 L

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: Yes  
 Danger releasing substance: cobalt dinitrate

**14.6. Special precautions for user**

No dangerous good in sense of this transport regulation.

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

No dangerous good in sense of this transport regulation.

**SECTION 15: Regulatory information**

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

**EU regulatory information**

Authorisations (REACH, annex XIV):  
 Substances of very high concern, SVHC (REACH, article 59):  
 cobalt dinitrate

Restrictions on use (REACH, annex XVII):  
 Entry 3, Entry 28, Entry 75

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.  
 Water hazard class (D): 3 - highly hazardous to water

**SECTION 16: Other information**

**Changes**

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

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Mischlösung je 200g/l KCl und NH<sub>4</sub>SCN und 30g/l Co(NO<sub>3</sub>)<sub>2</sub>x6H<sub>2</sub>O in Wasser**

Revision date: 13.05.2024

Product code: 22177

Page 12 of 12

**Abbreviations and acronyms**

Acute Tox: Acute toxicity  
 Eye Dam: Eye damage  
 Resp. Sens: Respiratory sensitisation  
 Skin Sens: Skin sensitisation  
 Muta: Germ cell mutagenicity  
 Carc: Carcinogenicity  
 Repr: Reproductive toxicity  
 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
Eye Dam. 1; H318	Calculation method
Carc. 1B; H350i	Calculation method
Repr. 1B; H360F	Calculation method
Aquatic Chronic 2; H411	Calculation method

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

H302 Harmful if swallowed.  
 H312 Harmful in contact with skin.  
 H317 May cause an allergic skin reaction.  
 H318 Causes serious eye damage.  
 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.  
 H360F May damage fertility.  
 H400 Very toxic to aquatic life.  
 H410 Very toxic to aquatic life with long lasting effects.  
 H411 Toxic to aquatic life with long lasting effects.  
 H412 Harmful to aquatic life with long lasting effects.  
 EUH032 Contact with acids liberates very toxic gas.  
 EUH208 Contains cobalt dinitrate. May produce an allergic reaction.

**Further Information**

Provide appropriate information, instructions and training to users  
 The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. The 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.)*