

according to Regulation (EC) No 1907/2006

# Nitroprussid-Natrium-Dihydrat mind. 98%

Revision date: 21.09.2023

Product code: 21704

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

## 1.1. Product identifier

Nitroprussid-Natrium-Dihydrat mind. 98%

CAS No:

13755-38-9

## 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: Street:	AnalytiChem GmbH Stempelstraße 6	
Place:	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
<u>1.4. Emergency telephone</u> number:	Exposure, or Accident Call CHEMTR	ous Goods] Incidents Spill, Leak, Fire, REC Day or Night Within USA and Canada: Canada: +1 703-741-5970 (collect calls

## **Further Information**

A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

## **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### Regulation (EC) No 1272/2008

Acute Tox. 3; H301

Full text of hazard statements: see SECTION 16.

## 2.2. Label elements

Regulation (EC) No 1272/2008 Signal word: Danger

Pictograms:



Hazard statements H301

Toxic if swallowed.

#### Precautionary statements

P270

Do not eat, drink or smoke when using this product.



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P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.			
	P330	Rinse mouth.	

# P405 2.3. Other hazards

No data available

## **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Sum formula:	Na2[Fe(CN)5NO]*2H2O
Molecular weight:	297,95 g/mol

Store locked up.

#### Hazardous components

CAS No	Chemical name		Quantity
	EC No Index No REACH No		
	Classification (Regulation (EC) No 1272/2008)		
13755-38-9	Nitroprussid-Natrium-Dihydrat		100 %
	Acute Tox. 3; H301		

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

Specific Conc. Limits, M-factors and ATE			
CAS No	EC No Chemical name Quanti		
	Specific Conc. Limits, M-factors and ATE		
13755-38-9	Nitroprussid-Natrium-Dihydrat 100 %		100 %
oral: ATE = 100 mg/kg			

#### **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**

Self-protection of the first aider

## After inhalation

Provide fresh air.

#### After contact with skin

Wash immediately with: Water

Take off immediately all contaminated clothing and wash it before reuse.

## After contact with eyes

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

#### After ingestion

Rinse mouth immediately and drink plenty of water. (Water, to which activated charcoal may be added) Call a physician immediately.

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

Circulatory collapse Dyspnoea Unconsciousness Release of: Hydrogen cyanide (hydrocyanic acid)



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## 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 solids Hazardous combustion products In case of fire may be liberated: Hydrogen cyanide (hydrocyanic acid)

#### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Avoid contact with skin, eyes and clothes.

#### Additional information

Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

#### **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 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.

Take up carefully when dry. Take up dust-free and set down dust-free.

#### 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



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## **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

#### Advice on safe handling

Avoid exposure - obtain special instructions before use. Keep container tightly closed. Do not breathe dust. Avoid contact with skin, eyes and clothes. Read label before use. Use extractor hood (laboratory).

#### Advice on protection against fire and explosion

Usual measures for fire prevention.

## Advice on general occupational hygiene

Wash contaminated clothing prior to re-use. Avoid contact with skin, eyes and clothes.

#### Further information on handling

Wash contaminated clothing before reuse. Wash hands before breaks and after work. Draw up and observe skin protection programme.

#### 7.2. Conditions for safe storage, including any incompatibilities

# Requirements for storage rooms and vessels

Keep container tightly closed. storage temperature: < +30°C Store in a place accessible by authorized persons only.

## Further information on storage conditions

Store in a dry place. Store in a well-ventilated place. Protect against: Light

## 7.3. Specific end use(s)

Laboratory chemicals

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

#### 8.1. Control parameters

## 8.2. Exposure controls

#### Appropriate engineering controls

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

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

#### Eye/face protection

goggles

## Hand protection

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 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11 mm Wearing time with permanent contact: > 480 min



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By short-term hand contact Trade name/designation: KCL 741 Dermatril® L Recommended 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).

#### Skin protection

Wear suitable protective clothing. Wash hands before breaks and after work.

## **Respiratory protection**

Respiratory protection necessary at: dust formation Filtering device with filter or ventilator filtering device of type: P3

## **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

9.1. Information on pasic physical and cher	nical properties	
Physical state:	solid	
Colour:	red	
Odour:	odourless	
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:		Х
Auto-ignition temperature:		No data available
Decomposition temperature:		>160 °C
pH-Value (at 20 °C):		~5 (50 g/l)
Viscosity / kinematic:		No data available
Water solubility:		400 g/L
(at 20 °C)		
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 (at 20 °C):		1,71 g/cm <sup>3</sup>
Relative density:		No data available
Bulk density:		~1000 kg/m <sup>3</sup>
Relative vapour density:		No data available
Particle characteristics:		No data available
9.2. Other information		

#### Information with regard to physical hazard classes



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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:	No data available	
Solid content:	100%	
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 Humidity

## 10.3. Possibility of hazardous reactions

Oxidising agent, strong Acid

## 10.4. Conditions to avoid

Heat

## 10.5. Incompatible materials

No data available

## 10.6. Hazardous decomposition products

In case of fire may be liberated: Hydrogen cyanide (hydrocyanic acid)

## 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

Toxic if swallowed. Liver and kidney damage



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CAS No	Chemical name				
	Exposure route Dose Species Source Method				
13755-38-9	Nitroprussid-Natrium-Dihydrat				
	oral	ATE 100 mg/kg			

#### 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

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.

## Information on likely routes of exposure

No data available

## Specific effects in experiment on an animal

No data available

#### Additional information on tests

No data available

#### Practical experience No data available

## 11.2. Information on other hazards

#### Endocrine disrupting properties

No data available

#### Other information No data available

Further information

## Circulatory collapse Dyspnoea Unconsciousness Release of: Hydrogen cyanide (hydrocyanic acid)

#### **SECTION 12: Ecological information**

#### 12.1. Toxicity

#### No data available

## 12.2. Persistence and degradability

No data available

#### 12.3. Bioaccumulative potential

No data available

#### 12.4. Mobility in soil

No data available

## 12.5. Results of PBT and vPvB assessment



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This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

# 12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

# No data available

12.7. Other adverse effects

No data available

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 mix with other wastes. 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 1588
14.2. UN proper shipping name:	CYANIDES, INORGANIC, SOLID, N.O.S. (Nitroprussid-Natrium-Dihydrat)
14.3. Transport hazard class(es):	6.1
14.4. Packing group:	ll
Hazard label:	6.1
Classification code:	Т5
Special Provisions:	47 274
Limited quantity:	500 g
Excepted quantity:	E4
Transport category:	2
Hazard No:	60
Tunnel restriction code:	D/E
Inland waterways transport (ADN)	
14.1. UN number or ID number:	UN 1588
14.2. UN proper shipping name:	CYANIDES, INORGANIC, SOLID, N.O.S. (Nitroprussid-Natrium-Dihydrat)
14.3. Transport hazard class(es):	6.1
14.4. Packing group:	
Hazard label:	6.1
Classification code:	Т5
Special Provisions:	47 274 802
Limited quantity:	500 g
Excepted quantity:	E4
Marine transport (IMDG)	
14.1. UN number or ID number:	UN 1588
14.2. UN proper shipping name:	CYANIDES, INORGANIC, SOLID, N.O.S. (Nitroprussid-Natrium-Dihydrat)
14.3. Transport hazard class(es):	6.1
14.4. Packing group:	II



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Hazard label:	6.1	
Marine pollutant:	Р	
Special Provisions:	47, 274	
Limited quantity:	500 g	
Excepted quantity:	E4	
EmS:	F-A, S-A	
Air transport (ICAO-TI/IATA-DGR)		
14.1. UN number or ID number:	UN 1588	
14.2. UN proper shipping name:	CYANIDES, INORGANIC, SOLID, N.O.S. (Nitroprussid-Natrium-Dihydrat)	
14.3. Transport hazard class(es):	6.1	
14.4. Packing group:	II	
Hazard label:	6.1	
Special Provisions:	A3 A13	
Limited quantity Passenger:	1 kg	
Passenger LQ:	Y644	
Excepted quantity:	E4	
IATA-packing instructions - Passenger:	669	
IATA-max. quantity - Passenger:	25 kg	
IATA-packing instructions - Cargo:	676	
IATA-max. quantity - Cargo:	100 kg	
14.5. Environmental hazards		
ENVIRONMENTALLY HAZARDOUS:	Yes	
Danger releasing substance:	Nitroprussid-Natrium-Dihydrat	
14.6. Special precautions for user		
No dangerous good in sense of this trai	nsport regulation	
14.7. Maritime transport in bulk according to		
No dangerous good in sense of this trai		
SECTION 15: Regulatory information		
15.1. Safety, health and environmental regul	ations/legislation specific for the substance or mixture	
EU regulatory information		
Restrictions on use (REACH, annex XVII):		
Entry 75		
Information according to 2012/18/EU	H2 ACUTE TOXIC	
(SEVESO III):		
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		
Abbreviations and acronyms		
Acute Tox: Acute toxicity		

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

H301 Toxic if swallowed.

#### 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



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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.