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

#### 1.1. Product identifier

niroklar 88

## 1.3. Details of the supplier of the safety data sheet

#### Address:

Chemische Fabrik Dr. Weigert GmbH & Co. KG

Mühlenhagen 85 D-20539 Hamburg

Telephone no. +49 40 789 60 0 Fax no. +49 40 789 60 120

www.drweigert.com

## E-mail address of person responsible for this SDS:

sida@drweigert.de

## 1.4. Emergency telephone number

Emergency telephone number: 112

## **SECTION 2: Hazards identification**

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

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

Classification (Regulation (EC) No. 1272/2008)

Met. Corr. 1 H290 Skin Corr. 1B H314 Eye Dam. 1 H318

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

#### 2.2. Label elements

## Labelling according to regulation (EC) No 1272/2008

#### Hazard pictograms



## Signal word

Danger

#### **Hazard statements**

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

## **Precautionary statements**

P280 Wear protective gloves/protective clothing/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.



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P310 Immediately call a POISON CENTER or doctor.

Dispose only when container is empty and closed. For disposal of product

%

residues, refer to safety data sheet.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains phosphoric acid

#### 2.3. Other hazards

No special hazards have to be mentioned.

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

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

#### 3.2. Mixtures

### **Hazardous ingredients**

phosphoric acid

CAS No. 7664-38-2 EINECS no. 231-633-2

Registration no. 01-2119485924-24 Concentration >= 50

Classification (Regulation (EC) No. 1272/2008)

Met. Corr. 1 H290 Skin Corr. 1B H314 Eve Dam. 1 H318

Concentration limits (Regulation (EC) No. 1272/2008)

Eye Irrit. 2 H319 >= 10 < 25 % Skin Corr. 1B H314 >= 25 % Skin Irrit. 2 H315 >= 10 < 25 %

Additional remarks:

CLP Regulation (EC) No 1272/2008, Annex VI, Note B

propan-2-ol

CAS No. 67-63-0 EINECS no. 200-661-7

Registration no. 01-2119457558-25

Concentration >= 1 < 10 %

Classification (Regulation (EC) No. 1272/2008)

Flam. Liq. 2 H225 Eye Irrit. 2 H319 STOT SE 3 H336

N-(n-octyl)-2-pyrrolidone

CAS No. 2687-94-7 EINECS no. 403-700-8

Concentration >= 1 < 2,5 %

Classification (Regulation (EC) No. 1272/2008)

Skin Corr. 1B H314 Aquatic Chronic 2 H411

N-(2-ethylhexyl)isononan-1-amide

CAS No. 93820-33-8 EINECS no. 298-613-3

Registration no. 01-2119984313-35



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Concentration >= 0,1 < 1 %

Classification (Regulation (EC) No. 1272/2008)

Aquatic Acute 1 H400 Aquatic Chronic 2 H411

dimethyldioctylammonium chloride

CAS No. 5538-94-3 EINECS no. 226-901-0

Registration no. 01-2120767055-53

Concentration >= 0,1 < 0,25 %

Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 3 H301 Route of exposure: oral Acute Tox. 2 H310 Route of exposure: dermal Skin Corr. 1B H314

Eye Dam. 1 H318
Aquatic Acute 1 H400
Aquatic Chronic 1 H410

Concentration limits (Regulation (EC) No. 1272/2008)

Aquatic Acute 1 M = 10

### Other information

Complete text of hazard statements in chapter 16

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### **General information**

Remove contaminated, soaked clothing immediately and dispose of safely. Clean body thoroughly (bath, shower). In any case show the physician the Safety Data Sheet.

#### After inhalation

Ensure supply of fresh air. When spray fog inhaled, seek medical aid.

#### After skin contact

After contact with skin, wash immediately with plenty of water. Take medical treatment.

#### After eye contact

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Summon a doctor immediately.

## After ingestion

If swallowed, seek medical advice immediately and show this container or label. Rinse mouth thoroughly with water. Let plenty of water be drunk in small gulps. Do not induce vomiting.

## Adhere to personal protective measures when giving first aid

First aider: Pay attention to self-protection!

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

Until now no symptoms known so far.

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

#### Hints for the physician / hazards

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

## **SECTION 5: Firefighting measures**



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## 5.1. Extinguishing media

## Suitable extinguishing media

Extinguishing measures to suit surroundings

## Non suitable extinguishing media

Full water jet

## 5.2. Special hazards arising from the substance or mixture

In case of combustion evolution of dangerous gases possible.

## 5.3. Advice for firefighters

## Special protective equipment for fire-fighting

Do not inhale explosion and/or combustion gases. In case of combustion use a suitable breathing apparatus.

#### Other information

Collect contaminated fire-fighting water separately, must not be discharged into the drains. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

### **SECTION 6: Accidental release measures**

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

Avoid contact with skin, eyes and clothing. Refer to protective measures listed in Sections 7 and 8.

## 6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

## 6.3. Methods and material for containment and cleaning up

Pick up with absorbent material. Dispose of absorbed material in accordance with the regulations.

#### 6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

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

#### 7.1. Precautions for safe handling

#### Advice on safe handling

Avoid formation of aerosols. Observe the usual precautions for handling chemicals. Keep container tightly

## Advice on protection against fire and explosion

Hot product develops flammable vapours.

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

#### Recommended storage temperature

Value > -20 < 30 °C

#### Requirements for storage rooms and vessels

Keep in original packaging, tightly closed. Storage rooms must be properly ventilated. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

## Storage classes

Storage class according to 8A Combustible corrosive hazardous substances TRGS 510

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

no data



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

## 8.1. Control parameters

## **Exposure limit values**

propan-2-o	
1:04	

EH40			
WEL			
999	mg/m³	400	ppm(V)
1250	mg/m³	500	ppm(V)
	WEL 999	WEL 999 mg/m³	WEL 999 mg/m³ 400

#### ph

phosphoric acid %		
List	EH40	
Type	WEL	
Value	1	mg/m³
Short term exposure limit	2	mg/m³
phosphoric acid %		
List	IOELV	
Type	IOELV	
Value	1	mg/m³

## Other information

Short term exposure limit

There are not known any further control parameters.

### 8.2. Exposure controls

#### General protective and hygiene measures

Hold eye wash fountain available. Hold emergency shower available. Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes. Do not eat, drink or smoke during work time. Wash hands before breaks and after work. Clean skin thoroughly after work; apply skin cream.

mg/m<sup>3</sup>

## **Respiratory protection**

If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn. Particle filter P2

#### Hand protection

Chemical resistant gloves			
Use	Permanent hand contact		
Appropriate Material	neoprene		
Material thickness	>=	0,65	mm
Breakthrough time	>	480	min
Appropriate Material	nitrile		
Material thickness	>=	0,4	mm
Breakthrough time	>	480	min
Appropriate Material	butyl		
Material thickness	>=	0,7	mm
Breakthrough time	>	480	min
Use	Short-term hand contact		
Appropriate Material	nitrile		
Material thickness	>=	0,11	mm
Hand protection must comply with EN ISO 374.			

#### Eye protection

Safety glasses with side protection shield; Eye protection must comply with EN 166.

#### **Body protection**

Clothing as usual in the chemical industry. Protective shoes

## **SECTION 9: Physical and chemical properties**



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9.1. Information on basic physical and chemical properties

Physical state
Colour
Colour
Colourless
Characteristic

**Melting point** 

Remarks not determined

Freezing point

Remarks not determined

Boiling point or initial boiling point and boiling range

Remarks not determined

**Flammability** 

evaluation not determined

Upper and lower explosive limits

Remarks not determined

Flash point

Value 45 °C

Remarks Negative results are obtained in the sustained combustibility test (UN

test L.2).

Ignition temperature

Remarks not determined

**Decomposition temperature** 

Remarks

Remarks not determined

pH value

Value < 1

Temperature 20 °C

**Viscosity** 

Remarks not determined

Solubility(ies)

Remarks not determined

Partition coefficient n-octanol/water (log value)

Remarks not determined

Vapour pressure

Remarks not determined

Density and/or relative density

Value 1,39 g/cm³

Temperature 20 °C

Relative vapour density

Remarks not determined

9.2. Other information

**Odour threshold** 

Remarks not determined

**Evaporation rate (ether = 1):** 

Remarks not determined

Solubility in water



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Remarks miscible in all proportions

**Explosive properties** 

evaluation not determined

**Oxidising properties** 

evaluation None known

Other information

None known

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

### 10.1. Reactivity

No hazardous reactions when stored and handled according to prescribed instructions.

## 10.2. Chemical stability

No hazardous reactions known.

## 10.3. Possibility of hazardous reactions

No hazardous reactions known.

#### 10.4. Conditions to avoid

No hazardous reactions known.

## 10.5. Incompatible materials

Reactions with alkalies. Reactions with metals, with evolution of hydrogen.

## 10.6. Hazardous decomposition products

No hazardous decomposition products known.

#### **SECTION 11: Toxicological information**

# 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity

ATE > 10.000 mg/kg
Method calculated value (Regulation (EC) No. 1272/2008)

## **Acute oral toxicity (Components)**

N-(n-octyl)-2-pyrrolidone

Species rat

LD50 > 2200 mg/kg

Method OECD 401

propan-2-ol

Species rat

LD50 5840 mg/kg

Method OECD 401

phosphoric acid ... %

Species rat

LD50 2600 mg/kg

dimethyldioctylammonium chloride

Species rat

LD50 720 mg/kg

Acute dermal toxicity

ATE > 10.000 mg/kg
Method calculated value (Regulation (EC) No. 1272/2008)

Acute dermal toxicity (Components)



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N-(n-octyl)-2-pyrrolidone

Species rat

LD50 > 4000 mg/kg

Method OECD 402

propan-2-ol

Species rabbit

LD50 13900 mg/kg

Method OECD 402

phosphoric acid ... %

Species rabbit

LD50 2740 mg/kg

Acute inhalational toxicity

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

**Acute inhalative toxicity (Components)** 

propan-2-ol

Species rat

LC50 > 25 mg/l

Duration of exposure 6 h

Administration/Form Vapors
Method OECD 403

Skin corrosion/irritation

evaluation corrosive

Remarks The classification criteria are met.

Serious eye damage/irritation

evaluation corrosive

Remarks The classification criteria are met.

Sensitization

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

Subacute, subchronic, chronic toxicity

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

Mutagenicity

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

Reproductive toxicity

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

Carcinogenicity

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

**Specific Target Organ Toxicity (STOT)** 

Single exposure

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

Repeated exposure

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

**Aspiration hazard** 

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

11.2 Information on other hazards

Endocrine disrupting properties with respect to humans

The product does not contain a substance that has endocrine disrupting properties with respect to humans.



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#### **Experience in practice**

Inhalation may lead to irritation of the respiratory tract.

#### Other information

There is no data available on the product apart from the information given in this subsection.

## **SECTION 12: Ecological information**

## 12.1. Toxicity

#### **General information**

not determined

## Fish toxicity (Components)

N-(n-octyl)-2-pyrrolidone

Species zebra fish (Brachydanio rerio)

LC50 12,3 to 44,8 mg/l

Duration of exposure 96 h

Method Regulation (EC) No. 440/2008, Annex, C.1

propan-2-ol

Species Fathead minnow (Pimephales promelas)

LC50 9640 mg/l

Duration of exposure 96 h

phosphoric acid ... %

Species mosquito fish

LC50 138 mg/l

Duration of exposure 96 h

dimethyldioctylammonium chloride

Species rainbow trout (Oncorhynchus mykiss)

LC50 0,35 mg/l

Duration of exposure 96 h

N-(2-ethylhexyl)isononan-1-amide

Species zebra fish (Brachydanio rerio)

LC50 > 1000 mg/l

Duration of exposure 96 h

Method OECD 203

#### **Daphnia toxicity (Components)**

N-(n-octyl)-2-pyrrolidone

Species Daphnia magna

EC50 12,2 mg/l

Duration of exposure 48 h

propan-2-ol

Species Daphnia magna

LC50 appr. 10000 mg/l

Duration of exposure 48 h

phosphoric acid ... %

Species Daphnia magna

EC50 > 100 mg/l

Duration of exposure 48 h

Method OECD 202

dimethyldioctylammonium chloride

Species Daphnia magna EC50 0,01 to 0,1 mg/l

Duration of exposure 48 h

N-(2-ethylhexyl)isononan-1-amide



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Species Daphnia magna

EC50 0.475 mg/l

Duration of exposure 48 h

Method OECD 202

Algae toxicity (Components)

N-(n-octyl)-2-pyrrolidone

Species Selenastrum capricornutum

EC50 6,2 mg/l

Duration of exposure 96 h

propan-2-ol

Species Scenedesmus subspicatus

IC50 > 1000 mg/l

Duration of exposure 72 h

phosphoric acid ... %

Species Scenedesmus subspicatus

EC50 > 100 mg/l

Duration of exposure 72 h

Method OECD 201

dimethyldioctylammonium chloride

ErC50 0,01 to 0,1 mg/l

Duration of exposure 72 h

N-(2-ethylhexyl)isononan-1-amide

Species Scenedesmus subspicatus

EC50 0,962 mg/l

Duration of exposure 72 h

Method OECD 201

**Bacteria toxicity (Components)** 

N-(n-octyl)-2-pyrrolidone

Species Pseudomonas putida

EC50 460 mg/l

Duration of exposure 0,5 h Method DIN 38412 / Part 27

propan-2-ol

Species activated sludge

EC50 > 100 mg/l

N-(2-ethylhexyl)isononan-1-amide

Species activated sludge

EC50 > 1000 mg/l

Duration of exposure 3 h

Method OECD 209

12.2. Persistence and degradability

**General information** 

not determined

**Biodegradability (Components)** 

dimethyldioctylammonium chloride

evaluation Readily biodegradable (according to OECD criteria)

12.3. Bioaccumulative potential

**General information** 

not determined

Partition coefficient n-octanol/water (log value)



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Remarks not determined

## 12.4. Mobility in soil

#### **General information**

not determined

#### 12.5. Results of PBT and vPvB assessment

#### **General information**

not determined

#### Results of PBT and vPvB assessment

The product contains no PBT or vPvB substances.

## 12.6 Endocrine disrupting properties

### **Endocrine disrupting properties with respect to the envrionment**

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

#### 12.7. Other adverse effects

#### General information

not determined

## General information / ecology

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Do not discharge product unmonitored into the environment.

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

## Disposal recommendations for the product

EWC waste code 18 01 06\* chemicals consisting of or containing dangerous substances

EWC waste code 20 01 29\* detergents containing dangerous substances

The listed waste code numbers, according to the European Waste Catalogue (EWC), are to be understood as a recommendation. A final decision must be made in agreement with the regional waste disposal company.

#### Disposal recommendations for packaging

EWC waste code 15 01 02 plastic packaging Completely emptied packagings can be given for recycling.

EWC waste code 15 01 10\* packaging containing residues of or contaminated by

dangerous substances

Packaging that cannot be cleaned should be disposed of in agreement with the regional waste disposal company.

## **SECTION 14: Transport information**



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	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	E		
IMDG-Code segregation group		1 Acids	
14.1. UN number or ID number	1805	1805	1805
14.2. UN proper shipping name	PHOSPHORIC ACID, SOLUTION	PHOSPHORIC ACID, SOLUTION	PHOSPHORIC ACID, SOLUTION
14.3. Transport hazard class(es)	8	8	8
Label			
14.4. Packing group	III	III	III
Limited Quantity	51	51	
Transport category	3		
14.5. Environmental hazards		no	

## Information for all modes of transport

14.6. Special precautions for user

See Sections 6 to 8

## Other information

**14.7 Maritime transport in bulk according to IMO instruments**Not applicable

## **SECTION 15: Regulatory information**

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

Ingredients (Regulation (EC) No 648/2004)

30 % and more:

phosphates

less than 5 %:

non-ionic surfactants, phosphonates, polycarboxylates

VOC

VOC (EU) 0 %

## Other regulations, restrictions and prohibition regulations

Observe employment restrictions for young people.

## Other information

The product does not contain substances of very high concern (SVHC).



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## 15.2. Chemical safety assessment

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

#### **SECTION 16: Other information**

## Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification (Regulation (EC) No. 1272/2008)

Met. Corr. 1 H290 Skin Corr. 1B H314 Eve Dam. 1 H318

## Hazard statements listed in Chapter 2/3

H225 Highly flammable liquid and vapour.

H290 May be corrosive to metals.

H301 Toxic if swallowed.

H310 Fatal in contact with skin.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eve damage. Causes serious eve irritation. H319 May cause drowsiness or dizziness. H336

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects. H411

#### CLP categories listed in Chapter 2/3

Acute Tox. 2 Acute toxicity, Category 2 Acute Tox. 3 Acute toxicity, Category 3

Aquatic Acute 1 Hazardous to the aquatic environment, acute, Category 1 Aquatic Chronic 1 Hazardous to the aquatic environment, chronic, Category 1 Hazardous to the aquatic environment, chronic, Category 2 Aquatic Chronic 2

Serious eye damage, Category 1 Eye Dam. 1 Eye Irrit. 2 Eye irritation, Category 2 Flammable liquid, Category 2 Flam. Lig. 2

Substance or mixture corrosive to metals, Category 1 Met. Corr. 1

Skin Corr. 1B Skin corrosion, Category 1B

STOT SE 3 Specific target organ toxicity - single exposure, Category 3

#### **Abbreviations**

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route

RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses

IMDG: International Maritime Code for Dangerous Goods

ICAO: International Civil Aviation Organization IATA: International Air Transport Association

VOC: Volatile Organic Compound

LD: Lethal dose

LC: Lethal concentration

PBT: Persistent. Bioaccumulative and Toxic vPvB: Very persistent and very bioaccumulative

SVHC: Substances of very high concern

MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by

the Protocol of 1978 (MARPOL: Marine Pollution)

IBC: Intermediate Bulk Container CAS: Chemical Abstracts Service

ISO: International Organization for Standardization

OEL: Occupational exposure limit

OECD: Organisation for Economic Co-operation and Development

**UN: United Nations** 



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IMO: International Maritime Organization

## **Supplemental information**

Relevant changes compared with the previous version of the safety data sheet are marked with: \*\*\* This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.