

# niroklar S 95

Version: 2 / GB

Replaces Version: 1 / GB

Date revised: 18.03.2022

Print date: 13.10.23

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

### 1.1. Product identifier

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### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### Identified Uses

PC35                      Washing and cleaning products (including solvent based products)

### 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

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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.  
 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 alkyl benzene sulfonic acid; 2-hydroxyacetic 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

##### malic acid

CAS No.	617-48-1			
EINECS no.	210-514-9			
Registration no.	01-2119552463-40			
Concentration	>= 10	<	25	%
Classification (Regulation (EC) No. 1272/2008)	Eye Irrit. 2		H319	

##### citric acid

CAS No.	77-92-9			
EINECS no.	201-069-1			
Registration no.	01-2119457026-42			
Concentration	>= 1	<	10	%
Classification (Regulation (EC) No. 1272/2008)	Eye Irrit. 2		H319	
	STOT SE 3		H335	

##### sulfamic acid

CAS No.	5329-14-6			
EINECS no.	226-218-8			
Registration no.	01-2119488633-28			
Concentration	>= 1	<	10	%
Classification (Regulation (EC) No. 1272/2008)	Skin Irrit. 2		H315	
	Eye Irrit. 2		H319	
	Aquatic Chronic 3		H412	

##### alkyl benzene sulfonic acid

CAS No.	85536-14-7			
EINECS no.	287-494-3			
Registration no.	01-2119490234-40			
Concentration	>= 5	<	10	%
Classification (Regulation (EC) No. 1272/2008)				

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Acute Tox. 4	H302	Route of exposure: oral
Skin Corr. 1C	H314	
Aquatic Chronic 3	H412	
Eye Dam. 1	H318	

## 2-hydroxyacetic acid

CAS No.	79-14-1			
EINECS no.	201-180-5			
Registration no.	01-2119485579-17			
Concentration	>= 5	<	10	%
Classification (Regulation (EC) No. 1272/2008)	Skin Corr. 1B		H314	

## sodium cumenesulfonate

CAS No.	15763-76-5			
EINECS no.	239-854-6			
Registration no.	01-2119489411-37			
Concentration	>= 1	<	10	%
Classification (Regulation (EC) No. 1272/2008)	Eye Irrit. 2		H319	

## sodium alkylsulfonate

CAS No.	97489-15-1			
EINECS no.	307-055-2			
Registration no.	01-2119489924-20			
Concentration	>= 1	<	5	%
Classification (Regulation (EC) No. 1272/2008)	Eye Dam. 1		H318	
	Skin Irrit. 2		H315	
	Acute Tox. 4		H302	Route of exposure: oral
	Aquatic Chronic 3		H412	

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

Acute Tox. 4	H302	> 60 %
Eye Dam. 1	H318	> 15 %
Eye Irrit. 2	H319	> 10 <= 15 %

## 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.

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## 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

### 5.1. Extinguishing media

#### Suitable extinguishing media

Product itself is non-combustible; adapt fire extinguishing measures to surrounding areas.

#### 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 closed.

#### Advice on protection against fire and explosion

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The product is not combustible.

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

### Recommended storage temperature

Value > 0 < 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 TRGS 510 8B Non-combustible corrosive hazardous substances

## 7.3. Specific end use(s)

no data

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Other information

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.

#### 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

### 9.1. Information on basic physical and chemical properties

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<b>Physical state</b>	liquid		
<b>Colour</b>	brownish, clear		
<b>Odour</b>	characteristic		
<b>Melting point</b>			
Remarks	not determined		
<b>Freezing point</b>			
Remarks	not determined		
<b>Boiling point or initial boiling point and boiling range</b>			
Remarks	not determined		
<b>Flammability</b>			
evaluation	Not applicable		
<b>Upper and lower explosive limits</b>			
Remarks	Not applicable		
<b>Flash point</b>			
Remarks	Not applicable		
<b>Ignition temperature</b>			
Remarks	Not applicable		
<b>Decomposition temperature</b>			
Remarks			
Remarks	not determined		
<b>pH value</b>			
Value	< 1		
Temperature	20	°C	
<b>Viscosity</b>			
<b>dynamic</b>			
Value	< 10		mPa.s
Temperature	20	°C	
<b>Solubility(ies)</b>			
Remarks	not determined		
<b>Partition coefficient n-octanol/water (log value)</b>			
Remarks	not determined		
<b>Vapour pressure</b>			
Remarks	not determined		
<b>Density and/or relative density</b>			
Value	1,18		g/cm <sup>3</sup>
Temperature	20	°C	
<b>Relative vapour density</b>			
Remarks	not determined		
<b>9.2. Other information</b>			
<b>Odour threshold</b>			
Remarks	not determined		
<b>Evaporation rate (ether = 1) :</b>			
Remarks	not determined		
<b>Solubility in water</b>			
Remarks	miscible in all proportions		

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## Explosive properties

evaluation no

## 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 alkalis.

### 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

Species	rat		
ATE	>	2000	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)		
Remarks	Based on available data, the classification criteria are not met.		

#### Acute oral toxicity (Components)

##### sodium alkylsulfonate

Species	rat			
LD50	300	to	2000	mg/kg

##### sulphamic acid

Species	rat			
LD50	3160			mg/kg

##### sodium cumenesulfonate

Species	rat			
LD50	>	2000		mg/kg
Method	OECD 401			

##### citric acid

Species	rat			
LD50	11700			mg/kg

##### citric acid

Species	mouse			
LD50	5040			mg/kg

#### Acute dermal toxicity

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

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## Acute dermal toxicity (Components)

### sulphamidic acid

Species	rat		
LD50	>	2000	mg/kg
Duration of exposure	24	h	

## Acute inhalational toxicity

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

## 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.

### 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)

sodium alkylsulfonate



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Species	zebra fish ( <i>Brachydanio rerio</i> )			
LC50	1	to	10	mg/l
Duration of exposure	96		h	

### sulphamic acid

Species	Fathead minnow ( <i>Pimephales promelas</i> )			
LC50	70,3			mg/l
Duration of exposure	96		h	

### citric acid

Species	golden orfe ( <i>Leuciscus idus</i> )			
LC50	440	to	706	mg/l
Duration of exposure	96		h	

## Daphnia toxicity (Components)

### sodium alkylsulfonate

Species	Daphnia magna			
EC50	9,81			mg/l
Duration of exposure	48		h	

### sulphamic acid

Species	Daphnia magna			
EC50	71,6			mg/l
Duration of exposure	48		h	
Method	OECD 202			

### citric acid

Species	Daphnia magna			
EC50	120			mg/l
Duration of exposure	72		h	

## Algae toxicity (Components)

### sodium alkylsulfonate

Species	Scenedesmus subspicatus			
EC50	> 61			mg/l
Duration of exposure	72		h	

### sulphamic acid

Species	Scenedesmus subspicatus			
ErC50	48			mg/l
Duration of exposure	72		h	

## Bacteria toxicity (Components)

### sodium alkylsulfonate

Species	Pseudomonas putida			
NOEC	600			mg/l
Method	DIN 38412 / Part 8			

### sulphamic acid

Species	activated sludge			
EC50	> 200			mg/l
Duration of exposure	3		h	

## 12.2. Persistence and degradability

### General information

not determined

### Biodegradability (Components)

#### sodium alkylsulfonate

evaluation Readily biodegradable (according to OECD criteria)

### Ready degradability (Components)

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citric acid

## Chemical oxygen demand (COD) (Components)

sodium alkylsulfonate

Value	1510	mg/g
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## 12.3. Bioaccumulative potential

### General information

not determined

### Partition coefficient n-octanol/water (log value)

Remarks	not determined
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## 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 environment

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
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EWC waste code	20 01 29*	detergents containing dangerous substances
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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
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Completely emptied packagings can be given for recycling.

EWC waste code	15 01 10*	packaging containing residues of or contaminated by dangerous substances
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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	1760	1760	1760
14.2. UN proper shipping name	CORROSIVE LIQUID, N.O.S. (alkyl benzene sulfonic acid, sulfamic acid)	CORROSIVE LIQUID, N.O.S. (alkyl benzene sulfonic acid, sulfamic acid)	CORROSIVE LIQUID, N.O.S. (alkyl benzene sulfonic acid, sulfamic acid)
14.3. Transport hazard class(es)	8	8	8
Label			
14.4. Packing group	III	III	III
Limited Quantity	5 l	5 l	
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)

##### 5 % or over but less than 15 %:

anionic surfactants

##### less than 5 %:

polycarboxylates

#### VOC

VOC (EU) 0 %

#### Other regulations, restrictions and prohibition regulations

Observe employment restrictions for young people.

#### Other information

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

## 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
Eye Dam. 1	H318

### Hazard statements listed in Chapter 2/3

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

### CLP categories listed in Chapter 2/3

Acute Tox. 4	Acute toxicity, Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic, Category 3
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Met. Corr. 1	Substance or mixture corrosive to metals, Category 1
Skin Corr. 1B	Skin corrosion, Category 1B
Skin Corr. 1C	Skin corrosion, Category 1C
Skin Irrit. 2	Skin irritation, Category 2
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  
IMO: International Maritime Organization

### Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: \*\*\*

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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.