

niroklar 5000

Version: 2 / GB

Replaces Version: 1 / GB

Date revised: 15.02.2017

Print date: 26.05.17

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

Use of the substance/preparation

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

GBK/ Infotrac: (USA domestic) 1 800 535 5053 or international +1 352 323 3500

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

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/shower.

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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 formic acid; sulphuric acid

2.3. Other hazards

No special hazards have to be mentioned.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients

cumenesulphonic acid

CAS No. 37953-05-2
EINECS no. 253-730-9
Registration no. 01-2119538809-24
Concentration ≥ 1 < 10 %
Classification (Regulation (EC) No. 1272/2008)
Skin Corr. 1B H314
Eye Dam. 1 H318

phosphoric acid

CAS No. 7664-38-2
EINECS no. 231-633-2
Registration no. 01-2119485924-24
Concentration ≥ 1 < 10 %
Classification (Regulation (EC) No. 1272/2008)
Skin Corr. 1B H314
Met. Corr. 1 H290

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

Skin Irrit. 2 H315 $\leq 10 < 25$
Skin Corr. 1B H314 ≥ 25
Eye Irrit. 2 H319 $\leq 10 < 25$

sulphuric acid

CAS No. 7664-93-9
EINECS no. 231-639-5
Registration no. 01-2119458838-20
Concentration ≥ 1 < 10 %
Classification (Regulation (EC) No. 1272/2008)
Skin Corr. 1A H314
Met. Corr. 1 H290

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

Skin Corr. 1A H314 ≥ 15
Skin Irrit. 2 H315 $\geq 5 < 15$
Eye Irrit. 2 H319 $\geq 5 < 15$

formic acid

CAS No. 64-18-6
EINECS no. 200-579-1
Registration no. 01-2119491174-37
Concentration ≥ 25 < 50 %

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

Skin Corr. 1A	H314
Acute Tox. 4	H302
Acute Tox. 3	H331
Flam. Liq. 3	H226
Eye Dam. 1	H318

Route of exposure: oral
Route of exposure: inhalative

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

Skin Irrit. 2	H315	<= 2 < 10
Eye Irrit. 2	H319	<= 2 < 10
Skin Corr. 1A	H314	>= 90
Skin Corr. 1B	H314	<= 10 < 90

fatty alcohols, ethoxylated, propoxylated

CAS No.	68439-51-0		
Concentration	>= 1	< 5	%
Classification (Regulation (EC) No. 1272/2008)	Aquatic Chronic 3	H412	

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

5.1. Extinguishing media

Suitable extinguishing media

Extinguishing measures to suit surroundings.

Non suitable extinguishing media

Full water jet

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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

The product is not combustible.

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 class according to TRGS 510

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

Exposure limit values

phosphoric acid

List EH40
Type WEL

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Value	1	mg/m ³		
Short term exposure limit	2	mg/m ³		
Status:	2011			

formic acid

List	EH40			
Type	WEL			
Value	9.6	mg/m ³	5	ppm(V)
Status:	2011			

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 (EN 374)

Use	Permanent hand contact		
Appropriate Material	neoprene		
Material thickness	>=	0,65	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	>=	0,28	mm

Eye protection

Safety glasses with side protection shield (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

Form	liquid		
Colour	light yellow		
Odour	characteristic		
Odour threshold	not determined		
Remarks	not determined		
pH value	not determined		
Value	<	1	
Temperature		20	°C
Melting point	not determined		
Remarks	not determined		
Freezing point	not determined		
Remarks	not determined		

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Initial boiling point and boiling range

Remarks not determined

Flash point

Remarks Not applicable

Evaporation rate (ether = 1) :

Remarks not determined

Flammability (solid, gas)

evaluation not determined

Upper/lower flammability or explosive limits

Remarks not determined

Vapour pressure

Remarks not determined

Vapour density

Remarks not determined

Density

Value 1,15 g/cm³
Temperature 20 °C

Solubility in water

Remarks miscible in all proportions

Solubility(ies)

Remarks not determined

Partition coefficient: n-octanol/water

Remarks not determined

Ignition temperature

Remarks not determined

Decomposition temperature

Remarks not determined

Viscosity

Remarks not determined

Explosive properties

evaluation not determined

Oxidising properties

evaluation None known

9.2. Other information

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.

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10.4. Conditions to avoid

No hazardous reactions known.

Decomposition temperature

Remarks not determined

10.5. Incompatible materials

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

10.6. Hazardous decomposition products

Irritant gases/vapours

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

Species	rat		
LD50	>	2000	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)		

Acute oral toxicity (Components)

formic acid

Species	rat		
LD50		730	mg/kg
Method	OECD 401		

phosphoric acid

Species	rat		
LD50		2600	mg/kg

Acute dermal toxicity

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

Acute dermal toxicity (Components)

phosphoric acid

Species	rabbit		
LD50		2740	mg/kg

Acute inhalational toxicity

Species	rat		
LC50	>	20	mg/l
Duration of exposure		4	h
Administration/Form	Vapors		
Method	calculated value (Regulation (EC) No. 1272/2008)		

Acute inhalative toxicity (Components)

formic acid

Species	rat		
LC50		7,85	mg/l
Duration of exposure		4	h
Method	OECD 403		

Skin corrosion/irritation

evaluation corrosive

Serious eye damage/irritation

evaluation corrosive

Sensitization

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

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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)

Remarks not determined

Aspiration hazard

No special hazards have to be mentioned.

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)

formic acid

Species	zebra fish (Brachydanio rerio)		
LC50	130		mg/l
Duration of exposure	96	h	
Method	OECD 203		

sulphuric acid

Species	mosquito fish		
LC50	42		mg/l
Duration of exposure	96	h	

phosphoric acid

Species	mosquito fish		
LC50	138		mg/l
Duration of exposure	96	h	

Daphnia toxicity (Components)

formic acid

Species	Daphnia magna		
EC50	365		mg/l
Duration of exposure	48	h	
Method	OECD 202		

sulphuric acid

Species	Daphnia magna		
EC50	29		mg/l
Duration of exposure	24	h	

phosphoric acid

Species	Daphnia magna		
EC50	> 100		mg/l

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Duration of exposure 48 h
Method OECD 202

Algae toxicity (Components)

formic acid

Species Selenastrum capricornutum
EC50 1240 mg/l
Duration of exposure 72 h
Method OECD 201

phosphoric acid

Species Scenedesmus subspicatus
EC50 > 100 mg/l
Duration of exposure 72 h
Method OECD 201

Bacteria toxicity (Components)

formic acid

Species activated sludge
EC20 > 1000 mg/l
Duration of exposure 0,5 h

sulphuric acid

Species activated sludge
EC50 58 mg/l
Duration of exposure 120 h

12.2. Persistence and degradability

General information

not determined

12.3. Bioaccumulative potential

General information

not determined

Partition coefficient: n-octanol/water

Remarks not determined

12.4. Mobility in soil

General information

not determined

12.5. Results of PBT and vPvB assessment

General information

not determined

Evaluation of persistence and bioaccumulation potential

The product contains no PBT or vPvB substances.

12.6. Other adverse effects

General information

not determined

General information / ecology

Do not allow to enter soil, waterways or waste water canal. Avoid release into the atmosphere.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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Disposal recommendations for the product

Allocation of a waste code number, according to the European Waste Catalogue (EWC), should be carried out in agreement with the regional waste disposal company.

Disposal recommendations for packaging

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

SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1. UN number	1760	1760	1760
14.2. UN proper shipping name	CORROSIVE LIQUID, N.O.S. (formic acid, sulphuric acid)	CORROSIVE LIQUID, N.O.S. (formic acid, sulphuric acid)	CORROSIVE LIQUID, N.O.S. (formic acid, sulphuric acid)
14.3. Transport hazard class(es)	8	8	8
Label			
14.4. Packing group	II	II	II
Limited Quantity	1 I		
Transport category	2		
14.5. Environmental hazards		no	
Tunnel restriction code	E		
IMDG-Code segregation group		1 Acids	

Information for all modes of transport

14.6. Special precautions for user

See Sections 6 to 8

Other information

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

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)

less than 5 %:

phosphates, non-ionic surfactants

Water Hazard Class (Germany)

Water Hazard Class WGK 1

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(Germany)
Remarks

Classification according to Annex 4 VwVwS

VOC

VOC (EU) 0 %

Other information

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

Hazard statements listed in Chapter 3

H226	Flammable liquid and vapour.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H412	Harmful to aquatic life with long lasting effects.

CLP categories listed in Chapter 3

Acute Tox. 3	Acute toxicity, Category 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
Flam. Liq. 3	Flammable liquid, Category 3
Met. Corr. 1	Substance or mixture corrosive to metals, Category 1
Skin Corr. 1A	Skin corrosion, Category 1A
Skin Corr. 1B	Skin corrosion, Category 1B

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.