

niroklar SF

Version: 3 / GB

Replaces Version: 2 /
GB

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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
Acute Tox. 4	H332

Route of exposure: inhalative

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.
H332	Harmful if inhaled.
EUH071	Corrosive to the respiratory tract.

Precautionary statements

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P260	Do not breathe dust/fume/gas/mist/vapours/spray.
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.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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 nitric acid; phosphoric acid

2.3. Other hazards

No special hazards have to be mentioned.

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

nitric acid

CAS No.	7697-37-2
EINECS no.	231-714-2
Registration no.	01-2119487297-23
Concentration	>= 10 < 25 %
Classification (Regulation (EC) No. 1272/2008)	Ox. Liq. 3 H272 Skin Corr. 1A H314 Met. Corr. 1 H290 Acute Tox. 3 H331

Route of exposure: inhalative

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

Skin Corr. 1A	H314	>= 20
Skin Corr. 1B	H314	>= 5 < 20
Ox. Liq. 2	H272	>= 99
Ox. Liq. 3	H272	>= 65 < 99
Acute Tox. 4	H332	> 13 < 26
Acute Tox. 3	H331	>= 26

Other information

Complete text of hazard statements in chapter 16

SECTION 4: First aid measures

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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

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.

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

nitric acid

List	EH40		
Type	WEL		
Short term exposure limit	2.6	mg/m ³	1 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

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

Hand protection

Chemical resistant gloves (EN 374)

Use Permanent hand contact

Appropriate Material butyl

Material thickness \geq 0,7 mm

Breakthrough time $>$ 480 min

Appropriate Material neoprene

Material thickness \geq 0,65 mm

Breakthrough time $>$ 240 min

Use Short-term hand contact

Appropriate Material nitrile

Material thickness \geq 0,28 mm

Breakthrough time $>$ 60 min

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 colourless, clear

Odour characteristic

Odour threshold

Remarks not determined

pH value

Value $<$ 1

Temperature 20 °C

Melting point

Remarks not determined

Freezing point

Remarks not determined

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

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Value	1,19		g/cm ³
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.

10.4. Conditions to avoid

No hazardous reactions known.

Decomposition temperature

Remarks not determined

10.5. Incompatible materials

Reactions with alkalis. Forms nitrous gases and hydrogen on action upon metals.

10.6. Hazardous decomposition products

Nitrous gases

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)		

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Acute oral toxicity (Components)

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

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

Acute inhalative toxicity (Components)

nitric acid

Species	rat		
	>	2,65	mg/l
Duration of exposure	4	h	
Administration/Form	Vapors		
Method	OECD 403		
Source	ECHA		

Skin corrosion/irritation

evaluation strongly corrosive

Serious eye damage/irritation

evaluation strongly corrosive

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)

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

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not determined

Fish toxicity (Components)

phosphoric acid

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

Daphnia toxicity (Components)

phosphoric acid

Species	Daphnia magna		
EC50	> 100		mg/l
Duration of exposure	48	h	
Method	OECD 202		

Algae toxicity (Components)

phosphoric acid

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

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

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.

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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	3264	3264	3264
14.2. UN proper shipping name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (nitric acid, phosphoric acid)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (nitric acid, phosphoric acid)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (nitric acid, phosphoric 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)

15 % or over but less than 30 %:

phosphates

less than 5 %:

polycarboxylates, phosphonates

Water Hazard Class (Germany)

Water Hazard Class WGK 1
(Germany)

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Remarks

Classification according to AwSV

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

H272	May intensify fire; oxidiser.
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H331	Toxic if inhaled.

CLP categories listed in Chapter 3

Acute Tox. 3	Acute toxicity, Category 3
Met. Corr. 1	Substance or mixture corrosive to metals, Category 1
Ox. Liq. 3	Oxidising liquid, Category 3
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.