





# neodisher N

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Replaces Version: - / CA

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## 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.  
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.

## 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  
Eye 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 %

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

##### 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

## Other information

Complete text of hazard statements in chapter 16

## 4. First-aid measures

### 4.1. Description of first aid measures

#### General information



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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.

## 5. Fire-fighting 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.

## 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



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Refer to protective measures listed in Sections 7 and 8.

## 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	>	-15	<	30	°C
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#### 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 8B Non-combustible corrosive hazardous substances  
TRGS 510

### 7.3. Specific end use(s)

no data

## 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
Breakthrough time	> 480
Appropriate Material	nitrile
Material thickness	= 0,4
Breakthrough time	> 480
Appropriate Material	butyl
Material thickness	= 0,7
Breakthrough time	> 480
Use	Short-term hand contact
Appropriate Material	nitrile
Material thickness	= 0,11



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Hand protection must comply with EN 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

## 9. Physical and chemical properties

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

<b>Form</b>	liquid
<b>Colour</b>	colourless
<b>Odour</b>	characteristic
<b>Odour threshold</b>	
Remarks	not determined
<b>pH value</b>	
Value	appr. 0,7
Temperature	20 °C
<b>Melting point</b>	
Remarks	not determined
<b>Freezing point</b>	
Remarks	not determined
<b>Initial boiling point and boiling range</b>	
Remarks	not determined
<b>Flash point</b>	
Remarks	Not applicable
<b>Evaporation rate (ether = 1) :</b>	
Remarks	not determined
<b>Flammability (solid, gas)</b>	
evaluation	Not applicable
<b>Upper/lower flammability or explosive limits</b>	
Remarks	Not applicable
<b>Vapour pressure</b>	
Remarks	not determined
<b>Vapour density</b>	
Remarks	not determined
<b>Density</b>	
Value	1,47
Temperature	20 °C
	g/cm <sup>3</sup>
<b>Solubility in water</b>	
Remarks	miscible in all proportions
<b>Solubility(ies)</b>	
Remarks	not determined
<b>Partition coefficient: n-octanol/water</b>	
Remarks	not determined
<b>Auto-ignition temperature</b>	
Remarks	Not applicable

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## Decomposition temperature

Remarks not determined

## Viscosity

### dynamic

Value	<	50			mPa.s
Temperature		20	°C		

## Explosive properties

evaluation not determined

## Oxidising properties

evaluation None known

## 9.2. Other information

### Other information

None known

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

### 10.6. Hazardous decomposition products

No hazardous decomposition products known.

## 11. Toxicological information

### 11.1. Information on toxicological effects

#### Acute oral toxicity

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)

##### citric acid

Species	rat		
LD50		11700	mg/kg

##### citric acid

Species	mouse		
LD50		5040	mg/kg

##### phosphoric acid ... %

Species	rat		
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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.

## 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.

## 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.

## 12. Ecological information

### 12.1. Toxicity

#### General information

not determined

#### Fish toxicity (Components)

##### citric acid

Species

golden orfe (Leuciscus idus)

LC50

440 to 706

mg/l

Duration of exposure

96 h



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## phosphoric acid ... %

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

## Daphnia toxicity (Components)

### citric acid

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

## 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

### Ready degradability (Components)

#### citric acid

## 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.

## 13. Disposal considerations



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## 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 off in agreement with the regional waste disposal company.

## 14. Transport information

	Land transport TDG	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	E		
IMDG-Code segregation group		1 Acids	
14.1. UN 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	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. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## 15. Regulatory information



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

### 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).

## 15.2. Chemical safety assessment

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

## 16. Other information

### Hazard statements listed in Chapter 3

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

### CLP categories listed in Chapter 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
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: \*\*\*

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.