

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 15.08.2023

Version number 203.05 (replaces version 203.04)

Revision: 22.06.2023

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

- 1.1 Product identifier

- Trade name **Nika R164 Pulver**

- CAS Number:

77-92-9

- EC number:

201-069-1

- REACH-Registration number 01-2119457026-42

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

For details on the identifiable uses according to EC-regulation No. 1907/2006 see annex of this safety data sheet.

- **Application of the substance / the mixture** Basic chemical (without special defined application)

- 1.3 Details of the supplier of the safety data sheet

- **Manufacturer/Supplier:**

NIKA Cleaning

Peter und Jan Füchtenhans GbR

Am Galgenberg 46

59227 Ahlen

Tel.: 02382/966 82 82

E-Mail: info@nika-cleaning.de

- **Informing department:** Product safety department

- 1.4 Emergency telephone number:

This is an English-language document designed for the European region. For the emergency number and other country-specific data, please refer to the specific national versions of this safety data sheet.

Counselling Centre for Poisoning, Mainz

Tel. (+49) 61 31 / 19 240.

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture

- **Classification according to Regulation (EC) No 1272/2008**

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory irritation.

- 2.2 Label elements

- **Labelling according to Regulation (EC) No 1272/2008**

The substance is classified and labelled according to the CLP regulation.

- **Hazard pictograms**



GHS07

- **Signal word** Warning

- **Hazard statements**

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

- **Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear eye protection / face protection.

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.

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P312 Call a POISON CENTER/doctor if you feel unwell.
 P337+P313 If eye irritation persists: Get medical advice/attention.
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **2.3 Other hazards** Up to 140°C no exothermic decomposition (DTA).

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **Determination of endocrine-disrupting properties** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.1 Substances** Citric acid $\text{HOC}(\text{COOH})(\text{CH}_2\text{COOH})_2$

- **CAS No. Designation:**

77-92-9 citric acid

- **Identification no(s):** Citric acid is an approved food additive according to the LMBG (E 330).

- **EC number:** 201-069-1

- **Additional information:**

Labelling in accordance with the Designation Ordinance to the Medicinal Products Act (ASK No.: 85 Citric acid).

SECTION 4: First aid measures

- **4.1 Description of first aid measures**

- **General advice:** No special measures required.

- **After inhalation**

Ensure fresh air supply. If symptoms persist, consult a physician. In case of respiratory arrest or breathing irregularity give artificial respiration or give oxygen by trained personnel and immediately call a physician. In case of unconsciousness place in a stable position.

- **After skin contact**

Remove contaminated clothing immediately. Wash affected areas with plenty of water und soap. If irritation continues, contact a doctor.

- **After eye contact**

Rinse immediately opened eye for several minutes under running water. Then consult doctor.

- **After swallowing**

Rinse out mouth and then drink plenty of water.

In case of persistent symptoms consult doctor.

- **4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

- **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**

- **Suitable extinguishing agents** Use fire fighting measures that suit the environment.

- **5.2 Special hazards arising from the substance or mixture**

dust explosion hazard

Can be released in case of fire:

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carbon monoxide (CO)

- 5.3 Advice for firefighters**- Protective equipment:** Wear self-contained breathing apparatus.**- Additional information**

Endangered containers in the surrounding area should be cooled with a water-hose.

Collect contaminated fire fighting water separately. It must not enter drains.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep off unprotected persons

Avoid contact with skin, eyes and clothing.

- 6.2 Environmental precautions:

Damp down dust with water spray jet.

Do not allow product to reach sewage system or water bodies.

In case of release of larger quantities, inform competent authorities.

- 6.3 Methods and material for containment and cleaning up:

Take up mechanically and rinse off residues with water. Avoid formation of dust. Take up in suitable containers and send for recovery or disposal according to item 13.

- 6.4 Reference to other sections See Section 8 for information on personal protection equipment.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling

Keep containers tightly sealed.

Avoid contact with eyes or skin.

Prevent formation of dust.

Do not breathe dust.

- Information about protection against explosions and fires:

With powdery organic substances, the danger of dust explosions must generally be expected.

Pay attention to general rules of internal fire prevention.

- 7.2 Conditions for safe storage, including any incompatibilities**- Storage** Store in cool, dry conditions in well sealed containers.**- Requirements to be met by storerooms and containers:**

Observe official regulations on storage and handling of water hazardous substances

Provide acid-resistant floor.

Do not store together with strong alkali. Unsuitable materials: many metallics and metallic alloys

- Information about storage in one common storage facility:

Do not store together with alkalis (caustic solutions).

Store away from oxidising agents.

- Further information about storage conditions:

Store under dry conditions.

Protect from humidity and keep away from water.

- 7.3 Specific end use(s) No further relevant information available.

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SECTION 8: Exposure controls/personal protection

- 8.1 Control parameters

- Components with critical values that require monitoring at the workplace:

77-92-9 citric acid

AGW (Germany)	Long-term value: 2 E mg/m ³ 2(I);DFG, Y
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- **DNELs** No DNEL value has been established.

- **Additional information:** The lists that were valid during the compilation were used as basis.

- 8.2 Exposure controls

- **Appropriate engineering controls** Extraction required in case of dust formation.

- **Individual protection measures, such as personal protective equipment**

- **General protective and hygienic measures**

Keep away from food, beverages and fodder.

Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

Do not inhale dust. Prevent formation of dust.

- **Breathing equipment:** Breathing protection to be used where a build-up of dust occurs.

- **Recommended filter device for short term use:** Filter P2

- **Hand protection**

Protective gloves (EN 374).

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Check the permeability prior to each renewed use of the glove.

- **Material of gloves**

Nitrile rubber (NBR), recommended material thickness: $\geq 0,35$ mm, breakthrough time: ≥ 480 min.

Butyl rubber, BR

Chloroprene rubber, CR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- **Penetration time of glove material**

Note information regarding permeation rate, penetration times and the degradation supplied by the manufacturer of gloves just as workplace-specific conditions.

- **Eye/face protection** Tightly sealed safety glasses.

- **Body protection:**

Standard protective working clothes, chemical resistant safety-shoes or wellingtons. If skin contact is possible, wear impenetrable protective clothing.

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties

- **General Information**

- **Physical state**

Solid.

- **Colour:**

White

- **Smell:**

Odourless

- **Odour threshold:**

Not determined.

- **Melting point/freezing point:**

153 °C

- **Boiling point or initial boiling point and boiling range**

200 °C

- **Flammability**

Product is not inflammable.

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- Lower and upper explosion limit**- Lower:** Not determined.**- Upper:** Not determined.**- Flash point:** 345 °C**- Auto-ignition temperature:** 345 °C**- Decomposition temperature:** > 153 °C**- pH** 1,8-2,2**- pH-value:****- Viscosity:****- Kinematic viscosity** Not applicable.**- dynamic:** Not applicable.**- Solubility****- Water at 20 °C:** 600 g/l**- Partition coefficient n-octanol/water (log value)** Not determined.**- Vapour pressure at 20 °C:** <0,1 hPa**- Density and/or relative density****- Density at 20 °C** 1,665 g/cm³**- Relative density** Not determined.**- Settled apparent density** ~725 kg/m³**- Vapour density** Not applicable.**- Particle characteristics**

See section 3.

- 9.2 Other information**- Appearance:****- Form:** Crystalline powder**- Important information on protection of health and environment, and on safety.****- Self-inflammability:** Not determined.**- Explosive properties:** Product is not potentially explosive
Dust explosions are generally possible with organic solids.**- Molecular weight** 192,13 g/mol**- Evaporation rate** Not applicable.**- Information with regard to physical hazard classes****- Explosives** Void**- Flammable gases** Void**- Aerosols** Void**- Oxidising gases** Void**- Gases under pressure** Void**- Flammable liquids** Void**- Flammable solids** Void**- Self-reactive substances and mixtures** Void**- Pyrophoric liquids** Void**- Pyrophoric solids** Void**- Self-heating substances and mixtures** Void**- Substances and mixtures, which emit flammable gases in contact with water** Void**- Oxidising liquids** Void**- Oxidising solids** Void**- Organic peroxides** Void**- Corrosive to metals** Void

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- **Desensitised explosives**

Void

* SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** Thermal decomposition: 140 °C
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**
 - Strong bases
 - strong oxidizing agents
- **10.6 Hazardous decomposition products:**
 - Formation of carbon monoxide and carbon dioxide in case of fire.

* SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

- LD/LC50 values that are relevant for classification:

Oral	LD50	>11.700 mg/kg (rat) (OECD 401)
		3.000 mg/kg (rat)
		5.040 mg/kg (mouse)
Dermal	LD50	>2.000 mg/kg (rat)

- **Skin corrosion/irritation** Slight irritant, but not sufficient to trigger an EC label.
- **Serious eye damage/irritation** Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** May cause respiratory irritation.
- **STOT-repeated exposure** 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** Substance is not listed.

* SECTION 12: Ecological information

- 12.1 Toxicity

- Aquatic toxicity:

LC 50 / 96 h	440-760 mg/l (Leuciscus idus)
LC 50 / 48 h	440 mg/l (Leuciscus idus) (OECD 203 (Acute toxicity - fish))
LC 50 / 24 h	1.535 mg/l (Daphnia magna) (OECD 202)
EC 50 / 24 h	440 mg/l (Leuciscus idus)
	1.535 mg/l (Daphnia)

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EC 50 / 16 h	10.000 mg/l (<i>Pseudomonas putida</i>)
EC 50 / 72 h	120 mg/l (<i>Daphnia magna</i>) 425 mg/l (Algae)

- 12.2 Persistence and degradability

The product is readily biodegradable.

Biodegradability	100 % (OECD 301 E) 98 % (OECD 302 B) (2 d)
CSB	728 mg O ₂ /g
BSB	526 mg O ₂ /g

- 12.3 Bioaccumulative potential No bioaccumulation**- 12.4 Mobility in soil** No further relevant information available.**- 12.5 Results of PBT and vPvB assessment****- PBT:** Not applicable.**- vPvB:** Not applicable.**- 12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

- 12.7 Other adverse effects**- Ecotoxic effects:** No ecotoxicological data known.**- Respiratory inhibition of communal activated sludge EC 20 (mg/l according to ISO 8192 B):**

EC 0	640 mg/l (<i>Scenedesmus quadricauda</i>) (7d)
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- Additional ecological information:

After neutralisation, only the relatively low harmful effect of the resulting salts is still present. If neutralisation is not carried out, the pH value of aqueous solutions must be observed. Damage to aquatic organisms begins below pH = 6 or above pH = 9.

- COD-value: 728 mg O₂/g product**- BOD5-value:** 526 mg O₂/g product**- General notes:**

Do not allow to enter drainage system, surface or ground water

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

Water hazard class 1 (Assessment by list): slightly hazardous for water.

SECTION 13: Disposal considerations

- 13.1 Waste treatment methods

The note below refers to the product left as it is and not to further processed products. When mixed with other products, other disposal routes may be required; if in doubt, consult the supplier of the product or the local authority.

- Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- Waste disposal key number:

Since 01/01/99 the waste code numbers have not only been product-related but are also essentially application-related. The valid waste code number of the application can be obtained from the European waste catalogue.

- Uncleaned packagings:**- Recommendation:**

Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

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- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

SECTION 14: Transport information

- 14.1 UN number or ID number - ADR/RID/ADN, IMDG, IATA	Void
- 14.2 UN proper shipping name - ADR/RID/ADN, IMDG, IATA	Void
- 14.3 Transport hazard class(es) - ADR/RID/ADN, IMDG, IATA - Class	Void
- 14.4 Packing group - ADR/RID/ADN, IMDG, IATA	Void
- 14.5 Environmental hazards: - Marine pollutant:	Not applicable. No
- 14.6 Special precautions for user	Not applicable.
- 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
- Transport/Additional information:	Not dangerous according to the above specifications.
- UN "Model Regulation":	Void

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Labelling according to Regulation (EC) No 1272/2008
The substance is classified and labelled according to the CLP regulation.
- Hazard pictograms



GHS07

- **Signal word** Warning
- **Hazard statements**
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
- **Precautionary statements**
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear eye protection / face protection.
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.
P312 Call a POISON CENTER/doctor if you feel unwell.
P337+P313 If eye irritation persists: Get medical advice/attention.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.

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P405 Store locked up.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** Substance is not listed.
- **LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)** Substance is not listed.
- **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**
Substance is not listed.
- **REGULATION (EU) 2019/1148**
- **Regulation (EC) No 273/2004 on drug precursors** Substance is not listed.
- **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**
Substance is not listed.
- **National regulations**
- **Information about limitation of use:**
Employment restrictions concerning young persons must be observed.
- **Other regulations, limitations and prohibitive regulations**
- **Substances of very high concern (SVHC) according to REACH, Article 57** Substance is not listed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This safety data sheet complies with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

- **Department issuing data specification sheet:** see item 1: Informing department
- **Date of previous version:** 30.03.2023
- **Version number of previous version:** 203.04
- **Abbreviations and acronyms:**
 RPE: Respiratory Protective Equipment
 RCR: Risk Characterisation Ratio (RCR= PEC/PNEC)
 ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals
 CLP: Classification, Labelling and Packaging (Regulation (EC) No. 1272/2008)
 EINECS: European Inventory of Existing Commercial Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 ISO: International Organisation for Standardisation
 DNEL: Derived No-Effect Level (REACH)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 SVHC: Substances of Very High Concern
 vPvB: very Persistent and very Bioaccumulative
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
- *** Data compared to the previous version altered.**
- **ANNEX**
Exposure Scenarios:
 Use as an intermediate
 Use in formulations
 Use for water treatment

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Use as laboratory chemical.

Use in cleaning agents

if applicable, for industry, trade and consumers respectively

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