CHEREY-NAGE



Safety Data Sheet

according to Regulations REACh 1907/2006/EC

NANOCOLOR Ozone Page: 1/10 Printing date: 15.05.2024 Date of issue: 07.09.2022 Version: 2.2.2.2

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

1.1 **Product identifier**

> REF 91885

Product name NANOCOLOR Ozone

REACH Registration number(s): see SECTION 3.1/3.2 or
A registration number for the substance(s) does not exist because the annual tonnage does not require registration or

the substance or its use is excluded from registration.

1 x 2 NANOFIX Ozone (R0)

2 x 100 mL Ozone (R1)

UFI: HSAW-J3K7-Y20T-HCGD 2 x 100 mL Ozone (R2)

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

Relevant identified uses

Product for analytical use.

Exposure Scenario Classification according REACh, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, AC 0

The exposure scenario is integrated into sections 1-16.

Uses advised against

not described

1.3 Details of the supplier of the safety data sheet

Manufactured by:

MACHEREY-NAGEL GmbH & Co. KG Valencienner Str. 11, 52355 Düren, Germany

Phone: +49 2421 969 0 E-mail: sds@mn-net.com (msds@mn-net.com)

1.4 **Emergency telephone number**

Outside Germany (DE): Call your regional Poisons Information Service or call local Life Saving Service.

DE: Gemeinsames Giftinformationszentrum (GGIZ)

99089 Erfurt tel. +49 361 730 730, < https://www.ggiz-erfurt.de>

You find our current versions of SDS in Internet: http://www.mn-net.com/SDS

SECTION 2: Hazard identification

2.0 Classification of the complete product according to Regulation (EC) 1272/2008



GHS07

WARNING Signal word

Hazard identification Hazard classes/categories

H315 Skin Irrit 2 H319 Eye Irrit. 2

2.1 Classification of the substance or mixture according to Regulation (EC) 1272/2008

100 mL Ozone (R2)



WARNING Signal word



Software: M2 V 6.1.5.0

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Hazard identification Hazard classes/categories
H315 Skin Irrit. 2
H319 Eye Irrit. 2

2 NANOFIX Ozone (R0)

Do not need labelling as hazardous

Signal word

No hazard class

100 mL Ozone (R1)



Signal word DANGER

Hazard identification Hazard classes/categories
H290 Met. Corr. 1

List of H phrases: see section 16.2

2.2 Label elements according regulation (EC) 1272/2008

According **CLP directive** inner packages must be only labelled with GHS symbol(s) and product identificator(s) (EU 1272/2008 Annex I - 1.5.1.2). Harmful chemicals/mixtures with signal word: **WARNING** must not be labelled with H and P phrases **until 125 mL** (EU 1272/2008 Annex I - 1.5.2).

100 mL Ozone (R2)



GHS07

Signal word: WARNING

2 NANOFIX Ozone (R0)

Do not need labelling as hazardous

Signal word: -

100 mL Ozone (R1)

Do not need labelling as hazardous

Signal word: -

Label elements of the complete product



GHS07

Signal word: WARNING

2.3 Other hazards

Possible hazards from physicochemical properties

In the case of pH values are less than 5 or higher than 9 then it is irritant.

Information pertaining to particular risks to human and possible symptoms



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Information pertaining to particular risks to the environment

PBT: not applicable vPvB: not applicable

Possible endocrine disrupting effects

no data available

SECTION 3: Composition / information on ingredients

3.1 Substances or 3.2 Mixtures

100 mL Ozone (R2)

Substance name: malonic acid CAS No.: malonic acid 141-82-2

Substance rating: H302, Acute Tox. 4 oral, H315, Skin Irrit. 2, H318, Eye Dam. 1, H335, resp. irrit. STOT SE 3

Formula: C $_3$ H $_4$ O $_4$ REACH Reg. No.: as intermediate
EC No.: 205-503-0
Concentration: 10 - <20 %

acc. CLP (GHS): H315, Skin Irrit. 2, H319, Eye Irrit. 2

Substance name: monosodium phosphate

CAS No.: 7558-80-7

Substance rating: No criteria for classification or naming of chemical not required.

Formula: NaH $_2$ PO $_4$ Pseudonym (de): Mono- oder prim-Na-phosphat
REACH Reg. No.: 01-2119489796-13-XXXX

EC No.: 231-449-2 Concentration: 10 - <20 %

acc. CLP (GHS): The criteria for classification are not fulfilled.

2 NANOFIX Ozone (R0)

Substance name: potassium indigotrisulfonate

CAS No.: 67627-18-3

Substance rating: No criteria for classification or naming of chemical not required.

Formula: $C_{16}H_{16}K_3N_2O_{11}S_3$

Pseudonym (de): 1H-Indol-5,7-disulfonsäure, tri K-Salz

Concentration: 10 - <20 %

acc. CLP (GHS): The criteria for classification are not fulfilled

100 mL Ozone (R1)

3.3 Remarks

When not listed, mixtures are added with water [CAS No. 7732-18-5] to 100%.List of H and P phrases: see section 16.2.

SECTION 4: First aid measures

4.1 Description of first aid measures

Place insured person out of danger zone to fresh air immediately. Ensure quiet, warmth, and provide resuscitation if necessary. If necessary contact medical advice.

4.1.1 After SKIN Contact

Remove contaminated clothing. Rinse the affected skin or mucous membrane thoroughly under running water. (If possible) use soap

4.1.2 After EYE Contact

After contact with the eyes rinse thoroughly under running water with the eyelid wide open with eye washing bottle, eye douche or running water (protect intact eye).



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4.1.3 After INHALATION of vapours

After inhalation of foam or vapour fresh air should be inhaled. Keep airways free. ---

4.1.4 After ORAL Intake

After oral intake lots of water should be drunk after it has been ingested.

4.2 Most important symptoms and effects, both acute and delayed

There are no known delayed symptoms or effects for this product.

4.3 Indication of any immediate medical attention and special treatment needed

No additionally recommendations. ---

SECTION 5: Firefighting measures

5.1 Extinguishing media

5.1.1 Suitable extinguishing media

Fire extinguishers appropriate to the fire classification, and, if applicable, a fire blanket must be available in a prominent location in the work area. All extinguishers like FOAM, WATER SPRAY, DRY POWDER, CARBON DIOXIDE can be used. Fire extinguishers appropriate to the fire classification, and, if applicable, a fire blanket must be available in a prominent location in the work area. All extinguishers like FOAM, WATER SPRAY, DRY POWDER, CARBON DIOXIDE can be used.

5.1.2 Unsuitable extinguishing media

no data available

5.2 Special hazards arising from the substance or mixture

Formation of hazardous and caustic vapour-air mixtures possible.

5.3 Advice for firefighters

No, for listed product. Product package burns like paper or plastic.

5.4 Additional information

no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe vapours. Regular staff training is necessary.

6.2 Environmental precautions

PBT: not applicable vPvB: not applicable

6.3 Methods and material for containment and cleaning up

Bind any escaping liquid with inert absorbent.

Collect small amounts of leaked liquid and flush with water into drains.

6.4 Reference to other sections

no data available

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handling in accordance with the test instruction, that comes with the product.

7.2 Conditions for safe storage, including any incompatibilities

Safe storage is guaranteed in the original packaging from MACHEREY-NAGEL. Storage class (German chemical industry): see chapter 12.1

Storage class (VCI): 8B
Water hazard class (DE): 1

7.2.1 Requirements for stock rooms and containers

Keep original product packages tightly closed during handling and storage.

7.3 Specific end use(s)



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Product for analytical use.

SECTION 8: Exposure controls /personal protection

8.1 Control parameters

100 mL Ozone (R2)

Chemical: monosodium phosphate CAS No.: 7558-80-7

DNEL: 4.07 inh mg/m³
DNEL = Derived No-Effect Level (for workers)

TRGS 900 (DE): -

Chemical: malonic acid CAS No.: 141-82-2

TRGS 900 (DE): 1.5 A mg/m³

2 NANOFIX Ozone (R0)

Chemical: potassium indigotrisulfonate CAS No.: 67627-18-3

8.2 Exposure controls

Good ventilation and extraction system in the room, floor resistant to chemicals with floor drainage and washing facilities. The highest level of cleanliness must be maintained at the workplace.

8.2.1 Respiratory protection

No additional recommendations.

8.2.2 Skin protection / Hand protection

Yes, gloves according EN 374 (permeation time >30 min - level 2), consist of PVC, natural latex, Neopren, or Nitril (f.ex. from Ansell or KCL). Use for short times chemical resistant latex gloves with code EN 374-3 level 1.

8.2.3 Eye / Face Protection

Yes, safety glasses according EN 166 with integrated side shields or wrap-around protection.

8.2.4 Skin protection

Not necessary.

8.2.5 Personal hygiene

Eating, drinking, smoking, taking snuff and storage of food in work areas and at outdoor workplaces is prohibited. Avoid contact with the skin, eyes and clothing. Rinse any clothing on which the substance has been spilled, and soak it in water. Wash hands thoroughly with soap and water when stopping work and before eating, and then apply protective skin cream.

8.2.6 Thermal hazards

no data available

8.3 Limitation and monitoring of environmental exposure

Do not release product into environment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

100 mL Ozone (R2)

a) State of aggregation:	liquid
b) Colour:	colourless
c) Odor:	odorless
d) Melting point:	no data available
e) Boiling point:	no data available
f) Flammability:	no data available
g) Explosive limits (lower / upper):	no data available
h) Flash point:	no data available
i) Flashing temperature:	no data available
j) Decomposition temperature:	no data available
k) pH value:	1
Kinematic viscosity:	no data available
m) Solubility in water:	no data available
n) Dispersion coefficient (K _{o/w}):	no data available
o) Vapour pressure (20°C):	no data available
p) Specific gravity:	1.051 g/cm³
q) Relative vapour density _(air=1) :	no data available
r) Particle size:	no data available



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2 NANOFIX Ozone (R0)

a) State of aggregation: solid (lyophilized)

b) Colour: blue c) Odor: odorless d) Melting point: no data available

e) Boiling point:
f) Flammability:
g) Explosive limits (lower / upper):
h) Flash point:
i) Flashing temperature:
j) Decomposition temperature:
no data available
no data available
no data available
no data available

k) pH value: 6.2-7.8

I) Kinematic viscosity:
m) Solubility in water:
n) Dispersion coefficient (K _{o/w}):
no data available
n) Vapour pressure (20°C):
p) Specific gravity:
no data available
p) Specific gravity:
no data available
p) Relative vapour density (air=1):
no data available
no data available
no data available

9.2 Other information

9.2.1 Information on physical hazard classes

no data available

9.2.2 Other safety-related parameters

No data is available for the other parameters for the mixtures, since no registration and no chemical safety report is required.

SECTION 10: Stability and reactivity

10.1 Reactivity

no further data available.

10.2 Chemical stability

no known instability.

10.3 Possibility of hazardous reactions

No further data available.

10.4 Conditions to avoid

Observe the storage temperature printed on it.

10.5 Incompatible materials

no additional data available

10.6 Hazardous decomposition products

In the original package all parts/all reagents are safety and separated stored. Decompositions are not observed during the expiration period under recommended conditions.

SECTION 11: Toxicological information

11.1 Information on the hazard classes according regulation (EC) 1272/2008

Following information is valid for pure substances. Quantitative data on the toxicity of this product are not available.

100 mL Ozone (R2)

Chemical: monosodium phosphate CAS No.: 7558-80-7

TSCA Inventory: listed
Korea Exist.Chem.Inventory: KE-31577
LD50 orl rat: 8290 mg/kg



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CAS No.: 141-82-2

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Chemical: malonic acid

TSCA Inventory: listed (propanedioic acid)

Korea Exist.Chem.Inventory: KE-23182 LD50 _{orl rat}: 1310 mg/kg LC50 _{ihl rat}: > 8,9 mg/L/1H

2 NANOFIX Ozone (R0)

Chemical: pótassium indigotrisulfonate CAS No.: 67627-18-3

TSCA Inventory: not listed

11.2 Other hazards

Possible endocrine disrupting effects

no data available

Other information

no additional data available

SECTION 12: Ecological information

12.1 Toxicity

Following information is valid for pure substances.

100 mL Ozone (R2)

Substance name: monosodium phosphate CAS-Nr.: 7558-80-7

LC50 leuciscus idus/96h : LC0: ~2400 48h mg/L Water hazard class (DE): 1 WGK No.: 0371

Storage class (VCI): 12-13

Substance name: malonic acid CAS-Nr.: 141-82-2

Water hazard class (DE): 1 Storage class (VCI): 12

2 NANOFIX Ozone (R0)

Substance name: potassium indigotrisulfonate CAS-Nr.: 67627-18-3

12.2 Persistence and degradability

12.3 Bioaccumulative potential

100 mL Ozone (R2)

Substance name: monosodium phosphate CAS-Nr.: 7558-80-7

Dispersion coefficient (K _{o/w}): -3,96

12.4 Mobility in soil

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

no data available

12.7 Other adverse effects

no additional data available



Software: M2 V 6.1.5.0

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SECTION 13: Disposal considerations

Please observe local regulations for collection and disposal of hazardous waste and contact waste disposal company, where you will obtain information on laboratory waste disposal (waste code number 16 05 06).

13.1 Waste treatment methods

Normally it is possible to empty small amounts (diluted!) into drains.

SECTION 14: Transport information

14.1 - 14.4: No dangerous goods according the transport regulations

14.5 **Environmental hazards**

none, contains only small quantities of hazardous substances

Special precautions for user 14.6

not necessary

14.7 Carriage in bulk by sea in accordance with IMO instruments

Not applicable.

SECTION 15: Regulatory information

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

Dangerous Substances Protection Act (DE: Chemikaliengesetz - ChemG), Aug 2013, Stand: Okt 2020

Ordinance on protection against dangerous substances (E: Gefahrstoffverordnung - GefStoffV), Nov 2010, Stand: Mrz 2017

TRGS 201, Classification and labeling of activities involving hazardous substances, Feb 2017

TRGS 220, National aspects when preparing safety data sheets, Jan 2017

TRGS 400, Risk assessment for activities involving hazardous substances, Jul 2017
BekGS 408, Application of the GefStoffV and the TRGS with the entry into force of the CLP regulation, December 2009, status: Jan

MN leaflet/instructions for use, also at www.mn-net.com

If necessary, observe other country-specific regulations.

15.2 Chemical safety assessment

not necessary for these small amounts

SECTION 16: Other information

16.1 Changes compared to the last version

in preparation

16.2 List of H and P phrases

16.2.1 List of relevant H phrases

in preparation H315 Causes skin irritation. H319 Causes serious eye irritation.

16.2.2 List of relevant P phrases

16.3 Recommended restriction on use

Only for professional user.

An individual package of this product or test kit has a moderate hazardous potential.

16.4 Sources of key data

KÜHN, BIRETT, Leaflets on hazardous materials, 2021

Directive 1999/92/EG Minimum requirements to improve the safety and health protection of workers at risk from potentially explosive

SUVA .CH, limit values in the air at work 2009, revised on 01/2009

Regulation 790/2009/EU, adaptation of Regulation 1272/2008/EU to technical and scientific progress (1st ATP)

Regulation 453/2010/EU, adaptation of the REACH regulation 1907/2006/EG

Regulation 487/2013/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (4th ATP)

Regulation 1221/2015/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (7th ATP)

Regulation 776/2017/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (10th ATP)

Regulation 669/2018/EU, adaptation of Regulation 1272/2008/EC to technical and scientific progressText (11th ATP) Regulation 1480/2018/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (13th ATP) Regulation 521/2019/EU, adaptation of regulation 1272/2008/EG to technical and scientific progress (12th ATP)



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TRGS 900, German rules of technology on limit values in the air at work, as of 03/2019

Regulation 217/2020/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (14th ATP)

Regulation 878/2020/EU, adaptation of Annex II of the REACH regulation 1907/2006/EG

Regulation 1182/2020/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (15th ATP) Regulation 643/2021/EU, adaptation of Annex VI, Part 1, of Regulation 1272/2008/EC to technical and scientific progress (16th ATP) Regulation 849/2021/EU, adaptation of Annex VI, Part 3, of Regulation 1272/2008/EC to technical and scientific progress (17th ATP) Regulation 692/2022/EU, adaptation of Annex VI, Part 1, of Regulation 1272/2008/EC to technical and scientific progress (18th ATP)

revisions/updates

Reason for revision: 2014-02 Corrected structure of the sections according to Regulation 453/2010/EU, if necessary

2014-04 adjustment according Regulation 487/2013/EU 2016-03 adjustment according Regulation 1221/2015/EU

2017-11 adjustment according the ECHA registration dossier 2022-11 adjustment according Regulation 878/2020/EU

16.5 **Further information**

MACHEREY-NAGEL GmbH & Co. KG provides the information contained herein in good faith being up-to-date of own realizations at revision time. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose.

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16.6 Legend / Abbreviations

according

ADR: Convention concerning the International Carriage of Dangerous Goods by Road

Act: acute

biological workplace tolerance value BAT:

CAO: Cargo Aircraft Only

Carc: carcinogen

CAS: Chemical Abstracts Service

CLP: Classification, Labelling and Packaging regulation

CMR: carcinogen, mutagen, reproduction toxic

Corr: corrosive

COD: chemical oxigen demand

CSCL: Chemical Substance Control Law (Jp)

Dam: damage

Derived No-Effect Level (for workers) DNEL:

derm: dermal dog:

EC10: Concentration causing a toxic effect in 10% of the test organisms

European Community EC:

EC-Nr: Substance number of the EC substance inventory Guide to accident management measures on ships FmS:

FU: **Furopean Union** fish: fish (not spezified)

GHS: Global Harmonized System of Classification and Labeling of Chemicals

guinea pig gpg: ICAO:

International Civil Aviation Organization

ihl: inhaled

IMDG: International Maritime Dangerous Goods Code

intrav: intravenous ipt: intraperitonaeal

ISHL: Industrial Safety and Health Law (Jp)

LC50: letale concentration 50% I D50: letale dosis 50%

leuciscus idus: fisch, ide, orfe MAK: maximum workplace concentration

Met: Metall mus. mouse mutagen Muta:

NIOSH: National Institute for Occupational Safety and Health (US)

NRD: Non-rapidly degradable

fish, rainbow trout onchorhynchus mykiss:

orl: oral



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OSHA: Occupational Safety and Health Administration PAX: transport on passenger planes allowed PBT: persistent, bioaccumulating, toxic substance

pH: pH value

pimephales promelas: fish, fathead minnow PNEC: Predicted No Effected Concentration PROC 15: Process category 'for laboratory use'

PRTR: Law for PRTR and Promotion of Chemical Management (Jp)

PVC: polyvinyl chloride bird, quail quail: rat. rat rabbit rbt:

rapidly degradable RD:

RE: repeated

REACh: Registration, Evaluation, Authorisation and Restriction of Chemicals

REF: item number, reference number

Reg.No.: rRegistration number harmful to reproduction Repr:

Resp: respiratory

RIP: **REACH Implementations Projects**

sub cutan scu: SDS: safety data sheet Sens: sensitisation

STEL: short term exposure limit STOT: Specific Target Organ Toxicity Substance of Very High Concern SVHC:

t/a:

tons per year
Toxic Chemicals Control Act (S. Korea) TCCA: Tox: toxic TSCA: The Toxic Substances Control Act (US) TWA: time weighted average

TRGS: technical regulations (DE)

vPvB: very persistent, very bioaccumulating substance

16.7 Training advice

Regular safety training. Multiple safety training of staffs about danger and protection by using hazards in working area. Additionally training and introduction of staffs for using these products.



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