

# Safety Data Sheet

according to Regulations 1907/2006/EC (REACH) and 2015/830/EU

REF: 985024	NANOCOLOR Chromate 5	Page: 1/9
Printing date: 12.01.2023	Date of issue: 26.09.2022	Version: 2.2.2.10

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

### 1.1 Product identifier

REF 985024  
 Product name NANOCOLOR Chromate 5

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.  
 20 x 30 mg Chromate 5, lyophilized (R0)  
 1 x 5 mL Chromate 5 (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](mailto:sds@mn-net.com) ([msds@mn-net.com](mailto:msds@mn-net.com))

### 1.4 Emergency telephone number

Information not necessary.

You find our current versions of SDS in Internet:

<<http://www.mn-net.com/SDS>>

*Lieferant / Supplier*  
*Carl Roth GmbH + Co KG*  
*Schoemperlenstr. 3-5*  
*76185 Karlsruhe, Germany*  
*+49 721 5606 0*  
*sicherheit@carlroth.de*

## SECTION 2: Hazard identification

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

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

**30 mg Chromate 5, lyophilized (R0)**

Signal word Do not need labelling as hazardous  
 -  
 No hazard class

**5 mL Chromate 5 (R2)**

Signal word Do not need labelling as hazardous  
 -  
 No hazard class

List of H phrases: see section 16.2

#### 2.2 Label elements according regulation (EC) 1272/2008

**30 mg Chromate 5, lyophilized (R0)**  
 Do not need labelling as hazardous



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Signal word: -

## 5 mL Chromate 5 (R2)

Do not need labelling as hazardous

Signal word: -

### Label elements of the complete product

#### 2.3 Other hazards

##### Possible hazards from physicochemical properties

According to our current status of knowledge and experience we state, that this product does not contain any substances, which - in accordance with EC regulations 1272/2008/EC, 1907/2006/EC and German Regulations for Hazardous goods - have to be declared as dangerous goods, either because of their applied concentration or because of their total amount in anyone kit. An individual package has considerably less hazardous potential.

##### Information pertaining to particular risks to human and possible symptoms

##### Information pertaining to particular risks to the environment

##### Possible endocrine disrupting effects

no data available

## SECTION 3: Composition / information on ingredients

### 3.1 Substances or 3.2 Mixtures

#### 30 mg Chromate 5, lyophilized (R0)

Substance name: 1,5-diphenylcarbazine  
CAS No.: 140-22-7

Substance rating: H315, Skin Irrit. 2, H319, Eye Irrit. 2, H335, STOT SE 3  
Formula: C<sub>13</sub>H<sub>14</sub>N<sub>4</sub>O  
REACH Reg. No.: not necessary, amount <1 t/a  
EC No.: 205-403-7  
Concentration: 1 - <10 %  
acc. CLP (GHS): The criteria for classification are not fulfilled.

#### 5 mL Chromate 5 (R2)

Substance name: sulfuric acid  
CAS No.: 7664-93-9

Substance rating: H315, Skin Irrit. 2, H319, Eye Irrit. 2  
Formula: H<sub>2</sub>SO<sub>4</sub>•H<sub>2</sub>O  
REACH Reg. No.: 01-2119458838-20-xxxx  
EC No.: 231-639-5  
Concentration: 1 - <5 %  
acc. CLP (GHS): The criteria for classification are not fulfilled.

Indice No.: 016-020-00-8

### 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.

#### 4.1.1 After SKIN Contact

Not necessary.

#### 4.1.2 After EYE Contact

Not necessary.

#### 4.1.3 After INHALATION of vapours



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- Not necessary. ---
- 4.1.4 **After ORAL Intake**  
Not necessary.
- 4.2 **Most important symptoms and effects, both acute and delayed**
- 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**  
None.
- 5.3 **Advice for firefighters**  
No, for listed product. Product package burns like paper or plastic.
- 5.4 **Additional information**

## SECTION 6: Accidental release measures

- 6.1 **Personal precautions, protective equipment and emergency procedures**  
Do not breathe vapours. Not necessary.
- 6.2 **Environmental precautions**  
not necessary
- 6.3 **Methods and material for containment and cleaning up**  
Clean working area with water. Flush used water into drains.
- 6.4 **Reference to other sections**

## SECTION 7: Handling and storage

- 7.1 **Precautions for safe handling**  
Handling in accordance with the test instruction, that comes with the product. Use a safety bottle when shaking test tubes.
- 7.2 **Conditions for safe storage, including any incompatibilities**  
Safe storage is guaranteed in the original packaging . Storage class (German chemical industry): see chapter 12.1  
**Storage class (VCI):** 8B  
**Water hazard class (DE):** 2
- 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)**  
Product for analytical use.



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## SECTION 8: Exposure controls /personal protection

### 8.1 Control parameters

**30 mg Chromate 5, lyophilized (R0)**

Chemical: 1,5-diphenylcarbazine

CAS No.: 140-22-7

**5 mL Chromate 5 (R2)**

Chemical: sulfuric acid

CAS No.: 7664-93-9

DNEL: 50 µg/m³

DNEL = Derived No-Effect Level (for workers)

PNEC (fresh water): 2.5 µg/L

PNEC = Predicted No Effect Concentration

TRGS 900 (DE): 0.1 E mg/m³

E/e respirable

Short-term exposure factor: 1 (I)

skin resorptive (H), respiratory sensitizable (Sa), skin sensitizable (Sh), teratogenic (Z) not securely excluded / (Y) certainly excluded

SUVA(CH) MAK value: 0,1 e mg/m³

NIOSH: NTP Report on Carcinogens (RoC) List Yes (Known to be a human carcinogen); TWA 1 mg/m³

[TWA] Time-weighted average to a reference period of 8 hours, [STEL] Short-term exposure limit related to a 15-minute period

OSHA: [TWA] 1 mg/m³

### 8.2 Exposure controls

Not necessary. Good ventilation and extraction system in the room, floor resistant to chemicals with floor drainage and washing facilities.

#### 8.2.1 Respiratory protection

Not necessary.

#### 8.2.2 Skin protection / Hand protection

Not necessary.

#### 8.2.3 Eye / Face Protection

Not necessary.

#### 8.2.4 Skin protection

Not necessary.

#### 8.2.5 Personal hygiene

Information not necessary.

#### 8.2.6 Thermal hazards

no data available

### 8.3 Limitation and monitoring of environmental exposure

Information not necessary.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**30 mg Chromate 5, lyophilized (R0)**

a) State of aggregation:	solid (lyophilized)
b) Colour:	rose
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:	6-8
l) Kinematic viscosity:	no data available
m) Solubility in water:	0-100 %
n) Dispersion coefficient (o/w):	no data available
o) Vapour pressure (20°C):	no data available
p) Specific gravity:	no data available
q) Relative vapour density (air=1):	no data available
r) Particle size:	no data available



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## 5 mL Chromate 5 (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:	0-1
l) Kinematic viscosity:	no data available
m) Solubility in water:	0-100 %
n) Dispersion coefficient (o/w):	no data available
o) Vapour pressure (20°C):	no data available
p) Specific gravity:	1,02 g/cm <sup>3</sup>
q) Relative vapour density (air=1):	no data available
r) Particle size:	no data available

## 9.2 Other information

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

### Properties relevant to substance groups

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

None

### 10.2 Chemical stability

no known instability.

### 10.3 Possibility of hazardous reactions

None.

### 10.4 Conditions to avoid

Observe the storage temperature printed on it. Not known.

### 10.5 Incompatible materials

Not known.

### 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.

#### 30 mg Chromate 5, lyophilized (R0)

Chemical: 1,5-diphenylcarbazine  
 TSCA Inventory: listed  
 LD50 orl rat: > 500 mg/kg

CAS No.: 140-22-7

#### 5 mL Chromate 5 (R2)

Chemical: sulfuric acid  
 TSCA Inventory: listed  
 ACGIH: 1 ppm  
 Exposure Routes: inhalation, ingestion, skin and/or eye contact  
 Target Organs: Eyes, skin, respiratory system, teeth  
 Symptoms: irritation eyes, skin, nose  
 Australia NICNAS: not listed

CAS No.: 7664-93-9

California Proposition 65 List: not listed

Canada CEPA 1999: DSL Yes



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Japan CSCL/PRTR:	not listed, Japan PDSCL: Deleterious Substance
Japan ISHL:	listed $\geq 1,0\%$ / $\geq 1,0\%$ , Article 57-2 (SDS required)
South Korea TCCA:	Accident Precaution Chemical Yes
Korea Exist.Chem.Inventory:	KE-32570
LD50 orl rat :	2140 mg/kg
LC50 ihl mus :	0,85 mg/L/4H
TRGS 905 (DE):	R F C

## 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.

#### 30 mg Chromate 5, lyophilized (R0)

Chemical:	<i>1,5-diphenylcarbazine</i>	CAS No.: 140-22-7
Water hazard class (DE):	2	
Storage class (VCI):	12-13	

#### 5 mL Chromate 5 (R2)

Chemical:	<i>sulfuric acid</i>	CAS No.: 7664-93-9
PNEC (fresh water) :	2.5 µg/L	
PNEC = Predicted No Effect Concentration		
LC50 fish/96h :	[NOEC, 65d] 25 µg/L	
EC50 daphnia/48h :	100 mg/L	
EC10 pseudomonas putida/16h :	[72h] 100 mg/L	
Water hazard class (DE):	1	WGK No.: 0182
Storage class (VCI):	8 B	

### 12.2 Persistence and degradability

not necessary

### 12.3 Bioaccumulative potential

not necessary

### 12.4 Mobility in soil

not necessary

### 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

## SECTION 13: Disposal considerations

Not necessary.

### 13.1 Waste treatment methods

GENERAL: Empty solids into municipal waste, empty liquids diluted into drains. Not necessary, see above.



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## SECTION 14: Transport information

14.1 - 14.4 Not necessary

- 14.5 Environmental hazards**  
none
- 14.6 Special precautions for user**  
not necessary
- 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**  
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  
MN leaflet/instructions for use, also at [www.mn-net.com](http://www.mn-net.com)  
If necessary, observe other country-specific regulations.
- 15.2 Chemical safety assessment**

## SECTION 16: Other information

- 16.1 Changes compared to the last version**  
Between versions 2.2.2.10 and 2.2.2.2 following changes were applied: - 8 substance data corrected
- 16.2 List of H and P phrases**
  - 16.2.1 List of relevant H phrases**
  - 16.2.2 List of relevant P phrases**
- 16.3 Recommended restriction on use**  
None
- 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 atmospheres  
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)  
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)
- 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



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## 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

acc:	according
ADR:	Convention concerning the International Carriage of Dangerous Goods by Road
Act:	acute
BAT:	biological workplace tolerance value
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
DNEL:	Derived No-Effect Level (for workers)
derm:	dermal
dog:	dog
EC10:	Concentration causing a toxic effect in 10% of the test organisms
EC:	European Community
EC-Nr:	Substance number of the EC substance inventory
EmS:	Guide to accident management measures on ships
EU:	European Union
fish:	fish (not spezified)
GHS:	Global Harmonized System of Classification and Labeling of Chemicals
gpg:	guinea pig
ICAO:	International Civil Aviation Organization
ihl:	inhaled
IMDG:	International Maritime Dangerous Goods Code
intrav:	intravenous
ipt:	intraperitoneal
ISHL:	Industrial Safety and Health Law (Jp)
LC50:	letale concentration 50%
LD50:	letale dosis 50%
leuciscus idus:	fisch, ide, orfe
MAK:	maximum workplace concentration
Met:	Metall
mus:	mouse
Muta:	mutagen
NIOSH:	National Institute for Occupational Safety and Health (US)
NRD:	Non-rapidly degradable
onchorhynchus mykiss:	fish, rainbow trout
orl:	oral
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 Effect Concentration
PROC 15:	Process category 'for laboratory use'
PRTR:	Law for PRTR and Promotion of Chemical Management (Jp)
PVC:	polyvinyl chloride
quail:	bird, quail
rat:	rat
rbt:	rabbit
RD:	rapidly degradable
RE:	repeated
REACH:	Registration, Evaluation, Authorisation and Restriction of Chemicals
REF:	item number, reference number
Reg.No.:	rRegistration number



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- Repr: harmful to reproduction
- Resp: respiratory
- RIP: REACH Implementations Projects
- scu: sub cutan
- SDS: safety data sheet
- Sens: sensitisation
- STEL: short term exposure limit
- STOT: Specific Target Organ Toxicity
- SVHC: Substance of Very High Concern
- t/a: tons per year
- TCCA: Toxic Chemicals Control Act (S. Korea)
- 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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