

# Safety Data Sheet

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

REF: 985024	NANOCOLOR Chromate 5	Page: 1/6
Printing date: 01.10.2019	Date of issue: 18.06.2018	

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

### 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.

1 x 5 mL Chromate 5 (R2)  
 20 x 30 mg Chromate 5, lyophilized (R0)

### 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  
 Neumann-Neander-Str. 6-8, 52355 Dueren, GERMANY  
 Tel.: +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 (22 languages) in Internet: <http://www.mn-net.com/SDS>

## SECTION 2: Hazard identification

### 2.0 Classification of the complete product

-

### 2.1 Classification of the substance or mixture

#### 5 mL Chromate 5 (R2)

Signal word Do not need labelling as hazardous  
 -

No hazard class

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

Signal word Do not need labelling as hazardous  
 -

No hazard class

### 2.2 Label elements

#### 5 mL Chromate 5 (R2)

Do not need labelling as hazardous  
 Signal word: -



# Safety Data Sheet

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

REF: 985024

NANOCOLOR Chromate 5

Page: 2/6

Printing date: 01.10.2019

Date of issue: 18.06.2018

## 30 mg Chromate 5, lyophilized (R0)

Do not need labelling as hazardous  
Signal word: -

### 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

---

#### Other hazards

---

## SECTION 3: Composition/information on ingredients

### 3.1 Substances or 3.2 Mixtures

#### 5 mL Chromate 5 (R2)

Chemical:	<i>sulfuric acid</i> (diluted < 5 %)	CAS No.:	7664-93-9d
Classification:	H315, Skin Irrit. 2, H319, Eye Irrit. 2		
Formula:	H <sub>2</sub> SO <sub>4</sub> · H <sub>2</sub> O		
TSCA Inventory:	listed		
REACH Reg. No.:	01-2119458838-20-xxxx		
EC No.:	231-639-5	Indice No.:	016-020-00-8
RTECS:	WS5600000		
KE No.:	KE-32570		
Concentration:	1 - <5 %		
acc. CLP (GHS):	The criteria for classification are not fulfilled.		

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

Chemical:	<i>1,5-diphenylcarbazine</i>	CAS No.:	140-22-7
Classification:	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		
Pseudonym:	2,2'-diphenyl-carbonic dihydrazide		
TSCA Inventory:	listed		
REACH Reg. No.:	not necessary, amount <1 t/a		
EC No.:	205-403-7		
RTECS:	FF2750000	MFCD:	00003013
Concentration:	1 - <10 %		
acc. CLP (GHS):	The criteria for classification are not fulfilled.		

### 3.3 Remarks

When not listed, mixtures are added with water [CAS No. 7732-18-5] to 100%.

---

## 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

# Safety Data Sheet

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

REF: 985024

NANOCOLOR Chromate 5

Page: 3/6

Printing date: 01.10.2019

Date of issue: 18.06.2018

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**

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.

5.2 **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**

The original product package of MACHEREY-NAGEL allows a safe storage.

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.

## SECTION 8: Exposure controls/personal protection

8.1 **Control parameters**

**5 mL Chromate 5 (R2)**

Chemical: *sulfuric acid*

CAS No.: 7664-93-9d

DNEL: 50 µg/m<sup>3</sup>

DNEL = Derived No-Effect Level (for workers)

PNEC<sub>(fresh water)</sub>: 2.5 µg/L

PNEC = Predicted No Effect Concentration

TRGS 900 (DE): 0.1 E mg/m<sup>3</sup>

E/e respirable

Short-term exposure factor: 1 (I)

www.mn-net.com

# Safety Data Sheet

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

REF: 985024

NANOCOLOR Chromate 5

Page: 4/6

Printing date: 01.10.2019

Date of issue: 18.06.2018

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/m<sup>3</sup>

NIOSH: NTP Report on Carcinogens (RoC) List Yes (Known to be a human carcinogen); TWA 1 mg/m<sup>3</sup>  
 [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/m<sup>3</sup>

## 30 mg Chromate 5, lyophilized (R0)

Chemical: 1,5-diphenylcarbazine

CAS No.: 140-22-7

## 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 Hand protection

Not necessary.

### 8.2.3 Eye protection

Not necessary.

### 8.2.4 Skin protection

Not necessary.

### 8.2.5 Personal hygiene

Information not necessary.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### 5 mL Chromate 5 (R2)

Appearance: liquid

Colour: colourless

Odor: odorless

pH:

0-1

Specific gravity:

1,02 g/cm<sup>3</sup>

Solubility in water:

0-100 %

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

Appearance: solid (lyoph.)

Colour: rose

Odor: odorless

pH:

6-8

Solubility in water:

0-100 %

### 9.2 Other information

Data for the other parameters of the mixtures are not available, because no registration and no chemical safety report is required.

**Relevant Properties of Substance Group**

---

## 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

Not known. Observe labeled storage temperature. ---

### 10.5 Incompatible materials

Not known.

# Safety Data Sheet

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

REF: 985024

NANOCOLOR Chromate 5

Page: 5/6

Printing date: 01.10.2019

Date of issue: 18.06.2018

## 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 toxicological effects

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

#### 5 mL Chromate 5 (R2)

Chemical:	<i>sulfuric acid</i>	CAS No.:	7664-93-9d
TSCA Inventory:	listed	California Proposition 65 List:	not 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	Canada CEPA 1999:	DSL Yes
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 <sub>orl rat</sub> :	2140 mg/kg		
LC50 <sub>ihl rat</sub> :	[8h] 600/ [4h] 850 mg/m <sup>3</sup>		
TRGS 905 (DE):	R <sub>F</sub> C		

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

Chemical:	<i>1,5-diphenylcarbazide</i>	CAS No.:	140-22-7
TSCA Inventory:	listed		

## SECTION 12: Ecological information

### 12.1 Toxicity

Following information is valid for pure substances.

#### 5 mL Chromate 5 (R2)

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

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

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

### 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

no data available

# Safety Data Sheet

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

REF: 985024

NANOCOLOR Chromate 5

Page: 6/6

Printing date: 01.10.2019

Date of issue: 18.06.2018

## 12.6 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.

## 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

German act governing protection from hazardous substances (Chemicals Act / Chemikaliengesetz- ChemG), revised on August 2013  
 German order governing protection from hazardous substances (Ordinance on Hazardous Substances / Gefahrstoffverordnung - GefStoffV), revised on November 2010, according to Directive 98/24/EC  
 MN Leaflet/User manual, also see [www.mn-net.com](http://www.mn-net.com)  
 Look for your country-specific regulations.

### 15.2 Chemical safety assessment

---

## SECTION 16: Other information

### 16.1 List of H and P phrases

#### 16.1.1 List of relevant H phrases

#### 16.1.2 List of relevant P phrases

### 16.2 Training advice

Regular safety training.

### 16.3 Recommended restriction on use

None

### 16.4 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.  
 MACHEREY-NAGEL GmbH & Co. KG makes NO REPRESENTATIONS or WARRANTIES, either expressed or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly MACHEREY-NAGEL GmbH & Co. KG will not be responsible for damages resulting from use of or reliance upon this information. See terms and conditions at the end of our price lists for additional information.

### 16.5 Sources of key data

Regulation 453/2010/EU REACH - REQUIREMENTS FOR THE COMPILATION OF SAFETY DATA SHEETS  
 Regulation 487/2013/EU, 4<sup>th</sup> adaptation of CLP regulation to technical and scientific progress  
 Regulation 669/2018/EU, 4<sup>th</sup> adaptation of CLP regulation to technical and scientific progress  
 TRGS 900, German engineering rules governing limits in air at work, updated 03/2018  
 SUVA .CH, Limits in air at work 2009, revised on 01.2009  
 KÜHN, BIRETT Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances)

#### Revisions/Updates

Reason for Revision: 2016-03 Adaptation of regulation 1221/2015/EU