MACHEREY-NAGEI



Safety Data Sheet

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

REF: 985056	NANOCOLOR Molybdenum 40	Page: 1/8
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1	Product identifier	
	REF	

Product name

985056 NANOCOLOR Molybdenum 40

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 Blank (NULL) 20 x 0.5 mL Molybdenum 40 (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 (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

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

	GHS05 GHS06
Signal word	DANGER
Hazard identification	Hazard classes/categories
H301 H311 H314 H331	Acute Tox. 3 oral Acute Tox. 3 derm. Skin Corr. 1B Acute Tox. 3 inh.

2.1 Classification of the substance or mixture

5 mL Blank (NULL)

Signal word

Do not need labelling as hazardous

No hazard class

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0.5 mL Molybdenum 40 (R0)



Signal word DANGER

Hazard identification	Hazard classes/categories
H301	Acute Tox. 3 oral
H311	Acute Tox. 3 derm.
H314	Skin Corr. 1B
H331	Acute Tox. 3 inh.

2.2 Label elements

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). Inner packages up to 10 mL need max. 2 symbols (Annex I - 1.5.2.4.1 / 2).

5 mL Blank (NULL)

Do not need labelling as hazardous Signal word: -

0.5 mL Molybdenum 40 (R0)



Signal word: DANGER

H301, H311, H314, H331 Toxic if swallowed. Toxic in contact with skin. Causes severe skin burns and eye damage. Toxic if inhaled.

P260sh, P280sh, P301+310, P303+361+353, P305+351+338, P405

Do not breathe dust/vapours. Wear protective gloves/eye protection. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Store locked up.

2.3 Other hazards

Possible hazards from physicochemical properties

Generally in the case of pH values are less than 2 or higher than 11.5 then it is corrosive. ---

Information pertaining to particular risks to human and possible symptoms

Causes varying degrees of acid burns on the skin, to the eyes and to the mucous membranes and wounds which do not heal quickly depending on the concentration, temperature and the exposure time. Vapours especially which steam from hot liquids and mist can have a severe irritant effect upon the eyes and the respiratory organs.

Cause severe after oral intake, inhalation of vapours, skin contact, impairments of health or can lead to death even when only ingested in small quantities. -

Information pertaining to particular risks to the environment

Avoid	contact of substance/mixture to environment.
PBT:	not applicable
vPvB:	not applicable

VPVB:	not applicable
Other hazar	ds



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SECT	ION 3: Composition/inf	ormation on ingredients	
3.1	Substances or 3.2 Mixture	25	
	5 mL Blank (NULL) Chemical: water Classification: Formula: TSCA Inventory: REACH Reg. No.: EC No.: RTECS: KE No.: Concentration: acc. CLP (GHS):	No criteria for classification or naming of chemical not required. H ₂ O listed exempt, Annex IV 231-791-2 ZC0110000 KE-35400 90 - <100 % The criteria for classification are not fulfilled.	CAS No.: 7732-18-5
	0.5 mL Molybdenum 40 (R0)	<i>colic acid</i> H301, Acute Tox. 3 oral, H311, Acute Tox. 3 derm., H3	CAS No.: 68-11-1

Classification:	H301, Acute Tox. 3 oral, H311, Ac	ute Tox. 3 derm., H314	, Skin Corr. 1B, H331, Acute Tox. 3 inh.
Formula:	C ₂ H ₄ O ₂ S•H ₂ O		
Pseudonym:	mercaptoacetic acid, sulfanylacetic	c acid	
TSCA Inventory:	listed		
REACH Reg. No.:	01-2119494933-24-xxxx		
EC No.:	200-677-4	Indice No.:	607-090-00-6
RTECS:	AI5950000	MFCD:	00004879
KE No.:	KE-33786, >25% Toxic 97-1-68		
Concentration:	80 - <100 %		
acc. CLP (GHS):	H301, Acute Tox. 3 oral, H311, Ac	ute Tox. 3 derm., H314	I, Skin Corr. 1B, H331, Acute Tox. 3 inh.

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 16.1

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. Remove contaminated clothing. Show product package, packing insert and this material safety data sheet to the doctor. Take to a doctor, in a raised position if there are breathing difficulties.

4.1.1 After SKIN Contact

Remove contaminated clothing immediately. Rinse the affected skin or mucous membrane thoroughly for min. 15 minutes under running water. (If possible) use soap. Avoid neutralisation. Then apply a loose bandage.

4.1.2 After EYE Contact

After contact with the eyes rinse thoroughly under running water with the eyelid wide open for min. 10 minutes with eye washing bottle, eye douche or running water (protect intact eye). Before (if possible) apply eye drops Proxymetacaine 0.5%, if the opening the eyelid convulsion is painful. Further treatment to be carried out by an eye specialist.

4.1.3 After INHALATION of vapours

After inhalation of foam or vapour fresh air should be inhaled. Keep airways free. If vomiting and if insensible place patient in recovery position and keep airways free. Administer a Dexamethasone spray as soon as possible. Ensure quiet, warmth, and provide resuscitation if necessary. In the event of respiratory distress ensure that the patient inhales oxygen. Secure the breathing, heart and circulatory function. ---

4.1.4 After ORAL Intake

After oral intake lots of water with activated charcoal supplement should be drunk after it has been ingested. Do not induce vomiting under any circumstances. Do not make any efforts to neutralise it. Contact medical advice for possible consequences. ---

4.2 Most important symptoms and effects, both acute and delayed

4.3 Indication of any immediate medical attention and special treatment needed

CORROSIVE DAMAGE: After SKIN CONTACT rinse with water for a long time. Efforts to neutralise the substance can frequently make matters worse. Apply glucocorticosteroides following inflammatory reactions. After EYE CONTACT rinse immediately with plenty of water for a long time. Eyelid convulsion measures. Name the corrosive chemical. Further treatment must to be carried out by an eye specialist. After INTAKÉ administer aluminium oxide drug suspensions. Administer a prophylaxis to counter pulmonary oedema following the INGESTION of corrosive aerosols. In the event of RESPIRATORY DISTREES ensure that the patient inhales oxygen. TOXIFICATION: Treat symptomatically. Secure the breathing, heart and circulatory function. Remove the substance quickly from the





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body. Mechanically induce vomiting or ensure the patient eats medicinal charcoal compressed tablets or drinks aluminium oxide drug suspensions. In order to ensure rapid passage through the colon (administer 2 tablespoons of dissolved Glauber's salt). Alleviation of pain, if necessary sedation. Shock treatment. Administer a prophylaxis to counter pulmonary oedema. ---

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

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. Spray any vapours released with water. Retent fire water. Use only acid-resistant safety equipment.

For great amount - if necessary - protective breathing apparatus which is independent of the ambient air (isolated equipment), and sealed protective clothing is necessary in the event of a large-scale formation of toxic substances.

5.4 Additional information

Danger for environment only in the event of a large-scale leakage or formation of hazardous substances. ---

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe vapours. Wear suitable protective gloves (see 8.2.2). Wear eye protection, respectively face protection. Regular staff training is necessary, indicating hazards and precautions on the basis of operating instructions. Restrictions on activity must be observed.

6.2 Environmental precautions

not necessary

6.3 Methods and material for containment and cleaning up

Bind any escaping liquid with inert absorbent. And dispose in accordance to local regulations for the disposal of hazardous chemicals. Clean any contaminated equipment and floors with plenty of water. Collect small amounts of leaked liquid and flush with water into drains.

6.4 Reference to other sections

see information in section 5.4 ---

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handling in accordance with the test instruction, that comes with the product. Use only in well-ventilated working areas. 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. Products containing also toxic substances should be kept locked up.

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

Requirements for stock rooms and containers

Keep original product packages tightly closed during handling and storage, and store in a well-ventilated place at max. 25 °C, away or preferably separate from substances with which a hazardous reaction could take place, so that they are not immediately accessible to outside parties. Use inbreakable container for transport of glass bottles.

7.3 Specific end use(s)

Product for analytical use.



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SECT	TION 8: Exposure cor	ntrols/personal protection	า		
8.1	Control parameters				
	5 mL Blank (NULL)				
	Chemical: water		CAS No.: 7732-18-	-5	
	0.5 mL Molybdenum 40		CAC No. (0.44.4		
	Chemical: thioglycolic DNEL:	[inh] 1,13 mg/m ³ ffect Level (for workers)	CAS No.: 68-11-1		
	TRGS 900 (DE):	4 mg/m ³ E/e respirable			
	SUVA(CH) MAK value:	1 ppm / 4 mg/m³			
		•	Short-term exposure limit related to a 15-minute period	1	
	OSHA:	none			
8.2	Exposure controls				
	Good ventilation and extractio level of cleanliness must be m	n system in the room, floor resistant to o aintained at the workplace.	chemicals with floor drainage and washing f	acilities. The highest	
8.2.1	Respiratory protection Use for open access of the	Respiratory protection Use for open access of these substances for example a protection filter, class A/AX. No additional recommendations.		ndations.	
8.2.2	Hand protection Yes, gloves according EN or KCL). Use for short tim	I 374 (permeation time >30 min - level 2 les chemical resistant latex gloves with	?), consist of PVC, natural latex, Neopren, o code EN 374-3 level 1.	r Nitril (f.ex. from Ansell	
8.2.3	Eye protection Yes, safety glasses accor	ding EN 166 with integrated side shield	s or wrap-around protection or face protecti	on.	
8.2.4	Skin protection Recommended to avoid o	lothing damage, and to avoid contamination	ation with these hazards.		
8.2.5	with the skin, eyes and cl	othing. Rinse any clothing on which the	k areas and at outdoor workplaces is prohit substance has been spilled, and soak it in v ating, and then apply protective skin cream	water. Wash hands	
SECT	ION 9: Physical and	chemical properties			
9.1	Information on basic p	hysical and chemical propert	ies		
	5 mL Blank (NULL)				
	Appearance: liquid pH:	Colour: colourless 6-8	Odor: odorless		
	Specific gravity:	1,00 g/cm³			

0.5 mL Molybdenum 40 (R0) Appearance: liquid Flash point:

Colour: slightly yellow 119 °C

Odor: penetrative

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

Strong CORROSIVE, no further data available.

10.2 **Chemical stability**

No known instability.



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10.3	Possibility of hazardous re		
	Can react violently with organic mat	ગrial. No further data available.	
10.4	Conditions to avoid		
	Not necessary. Observe labeled sto	age temperature	
10.5	Incompatible materials		
_	Avoid contact with strong acids or al		
10.6	Hazardous decomposition	•	· · · ·
	In the original package all parts/all ro period under recommended condition	eagents are safety and separated stored. Decompositions are not observ ons.	ed during the expiration
SEC	TION 11: Toxicological in	formation	
11.1	Information on toxicologica Following information is valid for	al effects pure substances. Quantitative data on the toxicity of this product are no	ot available.
	5 mL Blank (NULL)		
	Chemical: water	CAS No.: 7732	2-18-5
	TSCA Inventory: lis	sted	
	Korea Exist.Chem.Inventory: K	2-35400	
	0.5 mL Molybdenum 40 (R0)	
	Chemical: thioglycol		1-1
	- ,	ted California Proposition 65 List: not listed halation, skin absorption, ingestion, skin and/or eye contact	
	Target Organs: E	yes, skin, respiratory system	· · ·
	Symptoms: in blisters; in animals: lassitude (w	ritation eyes, skin, nose, throat; lacrimation (discharge of tears), corneal c reakness, exhaust	damage; skin burns,
	Australia NICNAS: no	ot listed Canada CEPA 1999: DSL Yes	
	Japan CSCL/PRTR: no	ot listed, Japan PDSCL: not listed	
		rticle 57-2 (SDS required) ot listed	
	Korea Exist.Chem.Inventory: K		
	LD50 _{orl rat} : 73	3 mg/kg	
		mg/m³ 00 mg/kg	
	LC50 _{ihl rat} : 0.	21 mg/L	
	Acute Effects: Cause severe af	ter oral intake, inhalation of vapours, skin contact, impairments of health of	or can lead to death even
	when only ingested in small qua	intities.	
SEC.	TION 12: Ecological infor	mation	
12.1	Toxicity		
14.1	Following information is valid for	pure substances.	
	5 mL Blank (NULL) Chemical: wate	CAS No.:	7732-18-5
	0.5 mL Molybdenum 40 (R0)		
		lycolic acid CAS No.: (68-11-1
		Industries to anvironment	
	Chemical: thiog Avoid contact of substance Bio Toxicity:	/mixture to environment. 3-5/3.9/3.6	
	Avoid contact of substance Bio Toxicity: Water hazard class (DE):	3-5/3.9/3.6 1 WGK No.: 0485	
	Avoid contact of substance Bio Toxicity:	3-5/3.9/3.6	
12.2	Avoid contact of substance Bio Toxicity: Water hazard class (DE):	3-5/3.9/3.6 1 WGK No.: 0485 8B	
	Avoid contact of substance Bio Toxicity: Water hazard class (DE): Storage class (VCI): Persistence and degradabi	3-5/3.9/3.6 1 WGK No.: 0485 8B	
	Avoid contact of substance Bio Toxicity: Water hazard class (DE): Storage class (VCI): Persistence and degradabi not necessary	3-5/3.9/3.6 1 WGK No.: 0485 8B	
12.2 12.3	Avoid contact of substance Bio Toxicity: Water hazard class (DE): Storage class (VCI): Persistence and degradabi not necessary	3-5/3.9/3.6 1 WGK No.: 0485 8B	



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not necessary

- 12.4 Mobility in soil
 - not necessary
- 12.5 Results of PBT and vPvB assessment no data available
- 12.6 Other adverse effects
 - no additional data available

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). Close container tightly.

13.1 Waste treatment methods

SECTION 14: Transport information

14.1. UN number: 3316 14.2. UN proper shipping name: Chemical Kit 14.3. Class: q 14.4. Packing group: Road transport Classification code: M11 Tunnel restriction code: F Limited Quantity: acc. ADR 3.3.1/251: see LQ in Alternative declaration for transportation Air transport PAX: 960 max. weight PAX: 10 KG CAO: 960 max. weight CAO: 10 KG Maritime transport F-A, S-P EmS: Storage category: Α

Or use Alternative declaration for transportation:

UN No.: (see below) class 8 II, Excepted Quantities (≤30 mL/∑≤500 mL) = ADR/ IATA E2 class 6.1 II, Excepted Quantities (≤1 mL/∑≤500 mL) = ADR/ IATA E4 or

14.2 UN proper shipping name: Corrosive liquid, toxic, n.o.s. (thioglycolic acid solution) 14.1 UN number: 2922 14.3 Class: 8 Additionally class: 6.1 _14.4 Packing group: II Road transport Classification code: CT1 Limited Quantity: 1 L Tunnel restriction code: Е Excepted Quantity: E 2 Air transport 851 PAX: max. weight PAX: 1 L CAO: 855 max. weight CAO: 30 L Maritime transport F-A, S-B В

14.5 **Environmental hazards**

EmS:

none, contains only small quantities of hazardous substances

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

Storage category:

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

TRGS 200, German engineering rules governing the classification and labelling of hazardous substances, preparations and products, updated October 2011

MN Leaflet/User manual, also see www.mn-net.com

Look for your country-specific regulations.

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15.2 Chemical safety assessment

not necessary for these small amounts ---

SECTION 16: Other information

List of H and P phrases 16.1

16.1.1	List of relevant H phrases		
	H301	Toxic if swallowed.	
	H311	Toxic in contact with skin.	
	H314	Causes severe skin burns and eye damage.	
	H331	Toxic if inhaled.	
16.1.2	List of relevant P phrases		
	P260sh	Do not breathe dust/vapours.	
	P261sh	Avoid breathing dust/vapours.	
	P280sh	Wear protective gloves/eye protection.	
	P301+310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.	
	P302+352	IF ON SKIN: Wash with plenty of water.	
	P303+361+353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].	
	P304+340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
	P305+351+338	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/doctor.	
	P311	Call a POISON CENTER/doctor.	
	P312	Call a POISON CENTER/doctor if you feel unwell.	
	P403+233	Store in a well-ventilated place. Keep container tightly closed.	
	P405	Store locked up.	

16.2 Training advice

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.

16.3 Recommended restriction on use

Only for professional user.

Look about employee restrictions for young people (f. ex. 94/33/EC or DE § 22 JArbSchG)! Look about employee restrictions for pregnant women and nursing women (f.ex. 92/85/EEC or for DE §§ 11-13 MuSchG 2017)! An individual package of this product or test kit has a moderate hazardous potential.

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.

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16.5 Sources of key data

Regulation 453/2010/EU REACH - REQUIREMENTS FOR THE COMPILATION OF SAFETY DATA SHEETS Regulation 487/2013/EU, 4th adaptation of CLP regulation to technical and scientific progress Regulation 669/2018/EU, 4th 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



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