MACHEREY-NAGEI



Safety Data Sheet

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

REF: 985037	NANOCOLOR Iron 3	Page: 1/9
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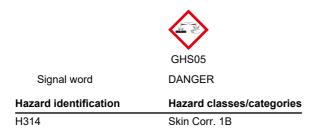
SECTION 1: Identification of the substance/mixture and of the company/undertaking

			-
1.1	Product identifier		
	REF	985037	
	Product name	NANOCOLOR Iron 3	
	REACH Registration number (s):	see SECTION 3.1/3.2 or stance(s) does not exist because the annual tonnage does not require registra	ation or
	the substance or its use is exclude		
		0	
		20 x 1 mL Iron 3 (R0	
		1 x 20x 29 mg NANOFIX Iron 3 R2	
1.2	Relevant identified uses of th	e substance or mixture and uses advised agai	inst
	Relevant identified uses		
	Product for analytical use.		
		cation according REACh, RIP 3.2 Codes: SU 0-2, PC 21, PRC	DC 15, AC 0
	I he exposure scenario is i Uses advised against	ntegrated into sections 1-16.	
	not described		
4.0			
1.3	Details of the supplier of the	safety data sheet	
	Manufactured by: MACHEREY-NAGEL GmbH & Co	KG	
	Neumann-Neander-Str. 6-8, 5235		
	Tel.: +49 2421 969 0	E-mail: sds@mn-net.com (ms	sds@mn-net.com)
1.4	Emergency telephone numbe		C ,
		egional Poisons Information Service or call local Life Saving S	Service
	DE: Gemeinsames Giftinformation		
	You find our current versions of SDS (22 la	nguages) in Internet: http://www.mn-net.com/SDS	
SEC	TION 2: Hazard identification	on	
• •			
2.0	Classification of the complete	e product	
		∧	
		\checkmark	

H314	Skin Corr. 1B
Hazard identification	Hazard classes/categories
Signal word	DANGER
	GHS05

2.1 Classification of the substance or mixture

1 mL Iron 3 (R0



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20x 29 mg NANOFIX Iron 3 R2

Signal word

Do not need labelling as hazardous

No hazard class

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).

1 mL Iron 3 (R0



Signal word: DANGER

H314

Causes severe skin burns and eye damage.

P260sh, P280sh, P303+361+353, P305+351+338, P310

Do not breathe dust/vapours. Wear protective gloves/eye protection. 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. Immediately call a POISON CENTER/doctor.

20x 29 mg NANOFIX Iron 3 R2

Do not need labelling as hazardous Signal word: -

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. The property H314 "Causes severe skin burns and eye damage." of some salts is not applicable, because the mixture is buffered to pH >3-4 (see GHS Directive 1272/2008/EC Annex I, chapter 3.2.3.1.2.). ---

Information pertaining to particular risks to human and possible symptoms

nment

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.

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Information pertaining to particular risks to the environment

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

Other hazards

SECTION 3: Composition/information on ingredients

3.1 Substances or 3.2 Mixtures

1 mL Iron 3 (R0



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REF: 985037	NANOCOL	OR Iron 3		Page: 3/9
Printing date: 02.06.2020	Date of issu	ie: 15.03.2019		
Chemical: Classificatic Formula: TSCA Inver REACH Re	$C_2 H_7 NO_2$ ntory: listed	aming of chemical not required.	CAS No.: 631-61-8	
EC No.: RTECS: KE No.: Concentrati acc. CLP (0	211-162-9 AF3675000 KE-01629 ion: 1 - <10 %	MFCD:	00013066	
Chemical: Classificatio Formula: TSCA Inver	C ₂ H ₄ O ₂ ; CH ₃ -COOH	, Skin Corr. 1B	CAS No.: 64-19-7	
REACH Re EC No.: RTECS: KE No.: Concentrati acc. CLP (0	200-580-7 AF1225000 KE-00013 ion: 25 - <50 %	Indice No.: MFCD:	607-002-00-6 00036152	
20x 29 mg NANOFI				
Chemical: Classificatio Formula: Pseudonym TSCA Inver REACH Re EC No.:	C6 H8 O6 n: vitamin C ntory: listed	aming of chemical not required.	CAS No.: 50-81-7	
RTECS: KE No.: Concentrati acc. CLP (C	CI7650000 KE-01947 ion: 90 - <100 %	MFCD: e not fulfilled.	00064328	
Chemical: Classificatio TSCA Inver Concentrati acc. CLP (0	ntory: listed ion: 5 - <20 %		CAS No.: -	

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.

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.

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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. If vomiting and if insensible place patient in recovery position and keep airways free. ---



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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. ---

SECTION 5: Firefighting measures

Extinguishing media 5.1

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 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): 1

7.2.1 Requirements for stock rooms and containers

Keep original product packages tightly closed during handling and storage. Use inbreakable container for transport of glass bottles.

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7.3 Specific end use(s)

Product for analytical use.



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SEC	TION 8: Exposure contro	Is/personal protection	ı	
8.1	Control parameters			
		ot listed	CAS No.: 631-61-8	
		not listed		
	Chemical: acetic acid DNEL: [DNEL = Derived No-Effect Le	loc, inh] 25 mg/m³ evel (for workers)	CAS No.: 64-19-7	
	PNEC(fresh water) : 3 PNEC = Predicted No Effecte EU value:	5.058 mg/L ed Concentration TWA] 25 / [STEL] 50 mg/m³		
	TRGS 900 (DE):	0 mL/m³ / 25 mg/m³ /e respirable		
			teratogenic (Z) not securely excluded / (Y) certainly exclude	ed
	[TWA] Time-weighted average	TŴÀ] 10 ppm / 25 mg/m ³ ; [STEL] e to a reference period of 8 hours, [STEL] \$ TWA] 10 ppm / 25 mg/m³	15 ppm / 37 mg/m ³ Short-term exposure limit related to a 15-minute period	
	20x 29 mg NANOFIX Iron 3 R Chemical: <i>L(+)-ascorbic ac</i>		CAS No.: 50-81-7	
	Chemical: triazine derivate		CAS No.: -	
8.2	Exposure controls Good ventilation and extraction sys level of cleanliness must be mainta		hemicals with floor drainage and washing facili	ties. The highest
8.2.1	Respiratory protection No additional recommendation	s.		
8.2.2		Hand protection Yes, gloves according EN 374 (permeation time >30 min - level 2), consist of PVC, natural latex, Neopren, or Nitril (f.ex. from Anse or KCL). Use for short times chemical resistant latex gloves with code EN 374-3 level 1.		
8.2.3	Eye protection Yes, safety glasses according	EN 166 with integrated side shields	s or wrap-around protection or face protection.	
8.2.4	Skin protection Recommended to avoid clothir	ng damage, and to avoid contamina	ation with these hazards.	
8.2.5	with the skin, eyes and clothing	g. Rinse any clothing on which the	k areas and at outdoor workplaces is prohibited substance has been spilled, and soak it in wate ating, and then apply protective skin cream.	
SEC	TION 9: Physical and che	emical properties		
9.1	Information on basic phys	ical and chemical properti	es	
	1 mL Iron 3 (R0 Appearance: liquid pH:	Colour: colourless 3-4	Odor: acetic	
	Specific gravity: Solubility in water:	1,03 g/cm³ 0-100 %		
	20x 29 mg NANOFIX Iron 3 R Appearance: solid	2 Colour: slightly yellow	Odor: odorless	

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DE/international:

pH:

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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.

10.3 Possibility of hazardous reactions

Can react violently with organic material. No further data available.

- 10.4 Conditions to avoid Not necessary. Observe labeled storage temperature. ---
- 10.5 Incompatible materials Avoid contact with strong acids or alkalines.

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.

1 mL Iron 3 (R0

Chemical:	ammonium acetate	e CAS No.: 631-61-8
TSCA Inventory:	listed	California Proposition 65 List: not listed
Australia NICNAS:	not listed	Canada CEPA 1999: DSL Yes
Japan CSCL/PRTR:	not listed, J	Japan PDSCL: not listed
Japan ISHL:	not listed	
South Korea TCCA:	not listed	
Korea Exist.Chem.Inv	entory: KE-01629	
LD50 _{orl rat} :	632 mg/kg	

Chemical:	acetic acid	CAS No.: 64-19-7
TSCA Inventory:	listed	California Proposition 65 List: not listed
Exposure Routes:	inhalation, skir	n and/or eye contact
Target Organs:	Eyes, skin, res	piratory system, teeth
Symptoms:	irritation eyes,	skin, nose, throat; eye, skin burns; skin sensitization; dental erosion; black skin,
hyperkeratosis; conju	nctivitis, lacrimation (di	
Australia NICNAS:	not listed	Canada CEPA 1999: DSL Yes
Japan CSCL/PRTR:	not listed, Japa	an PDSCL: not listed
Japan ISHL:	listed ≥1,0%/≥	1,0%, Article 57-2 (SDS required)
South Korea TCCA:	not listed	
Korea Exist.Chem.Inv	entory: KE-00013	
LD50 _{orl rat} :	3310 mg/kg	
LC50 _{inh rat} :	[4h] 8.5-12,7 n	ng/L
LD50 _{drm rbt} :	1060 mg/kg	
LD50 _{oral mouse} :	4960 mg/kg	

20x 29 mg NANOFIX Iron 3 R2

Chemical:	L(+)-ascorbic acid
TSCA Inventory:	listed
Korea Exist.Chem.In	ventory: KE-01947
LD50 _{orl rat} :	11900 mg/kg
LD50 _{ivn mus} :	518 mg/kg

CAS No.: 50-81-7

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	Chemical: triazine de TSCA Inventory: list		CAS No.: -				
	ION 12: Ecological inform	nation					
12.1	Toxicity Following information is valid for pure substances.						
	1 mL Iron 3 (R0 Chemical: ammo Bio Toxicity: LC50 _{fish/96h} : Water hazard class (DE): Storage class (VCI):	nium acetate 1/4.5/4.8 238 mg/L 1 WGK No.: n.n. 12-13	CAS No.: 631-61-8				
	Chemical: acetic Avoid contact of substance/ PNEC(fresh water) : PNEC = Predicted No Effected Cor	mixture to environment.	CAS No.: 64-19-7				
	LC50 _{fish/96h} : EC50 _{daphnia/48h} : IC50 _{scenedes} mus quadricauda/7 Water hazard class (DE): Dispersion coefficient _{(octanol} Storage class (VCI):	[4d] 301-1000 mg/L 301-1000 mg/L _{2h} : 301-1000 mg/L 1 WGK No.: 0093					
	20x 29 mg NANOFIX Iron 3 R2 Chemical: <i>L(+)-a</i> Water hazard class (DE): Storage class (VCI):	scorbic acid 1 WGK No.: 0737 13	CAS No.: 50-81-7				
	Chemical: triazin Storage class (VCI):	e derivate 12-13	CAS No.: -				
12.2	Persistence and degradabiling not necessary	ty					
12.3	Bioaccumulative potential not necessary						
12.4	Mobility in soil						
12.5	Results of PBT and vPvB as no data available	sessment					
12.6	Other adverse effects no additional data available						
SECT	ION 13: Disposal conside	erations					
P in	lease observe local regulations for collect formation on laboratory waste disposal (tion and disposal of hazardous waste and co waste code number 16 05 06).	ntact waste disposal company, where you will obtain				
13.1	Waste treatment methods						
SECT	ION 14: Transport inform	ation					
14 14 R C	4.1. UN number: 3316 14.2. UN p 4.3. Class: 9 14.4. Pack Road transport 5 5 Classification code: M11 Tunr		ntation				

PAX: 960 max. weight PAX: 10 KG



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CAO: Maritime transport	960	max. weight CAO:	10 KG						
EmS:	F-A, S-P	Storage category:	A						
Or use Alternative declaration for transportation: UN No.: (see below) class 8 III, Excepted Quantities (≤30 mL/∑≤1 L) = ADR/ IATA E1 or									
		LINE CONTRACTOR AND							
14.1 UN number: 14.3 Class: Road transport		Packing group: III	name: Corrosive liquid, acidic, organic, n.o.s. (acetic acid mixture)						
14.3 Class: <i>Road transport</i> Classification code: Limited Quantity: Excepted Quantity:									
14.3 Class: <i>Road transport</i> Classification code: Limited Quantity: Excepted Quantity: <i>Air transport</i> PAX:	8 14.4 C3 5 L E 1 852	Packing group: III Tunnel restriction co max. weight PAX:	ode: E 5L						
14.3 Class: <i>Road transport</i> Classification code: Limited Quantity: Excepted Quantity: <i>Air transport</i>	8 14.4 C3 5 L E 1	Packing group: III	ode: E						

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

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.

15.2 **Chemical safety assessment**

not necessary for these small amounts ---

SECTION 16: Other information

16.1 List of H and P phrases

16.1.1 List of relevant H phrases

	H314	Causes severe skin burns and eye damage.			
16.1.2	List of relevant P phrases				
	P260sh	Do not breathe dust/vapours.			
	P280sh	Wear protective gloves/eye protection.			
	P303+361+353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].			
	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.			

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.

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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 Regulation 1480/2018/EU, 4th adaptation of CLP regulation to technical and scientific progress TRGS 900, German engineering rules governing limits in air at work, updated 03/2019 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

