MACHEREY-NAGEI





Safety Data Sheet

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

REF: 931025	VISOCOLOR ECO Iron 1	Page: 1/8
Printing date: 01.10.2019	Date of issue: 15.03.2019	

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

1.1 **Product identifier**

REF Product name 931025 VISOCOLOR ECO Iron 1

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 30 mL Fe-1

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

2.1 Classification of the substance or mixture

30 mL Fe-1

	GHS05 GHS06
Signal word	DANGER
Hazard identification	Hazard classes/categories

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).

30 mL Fe-1





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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. 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

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. not applicable PBT: not applicable vPvB:

Other hazards

SECTION 3: Composition/information on ingredients

3.1 Substances or 3.2 Mixtures

30 mL Fe-1

 0-1				
		olic acid		CAS No.: 68-11-1
Classification:		H301, Acute Tox. 3 oral, H311, Acute	e 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 a	cid	
TSCA Invento	ry:	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	:	24 - <40 %		
acc. CLP (GH	S):	H301, Acute Tox. 3 oral, H311, Acute	e Tox. 3 derm., H314,	Skin Corr. 1B, H331, Acute Tox. 3 inh.
		derivate		CAS No.: -
Classification:		No criteria for classification or naming of chem	ical not required.	
TSCA Invento		listed		
Concentration		< 1,00 %		
acc. CLP (GH	S):	The criteria for classification are not fulfilled.		
Chemical:	acotato	buffer solution		CAS No.: -
Classification:			ingland an environd	6A6 No.: -
Formula:		No criteria for classification or naming of chem CH ₃ COOH/K/Na•H ₂ O	lical not required.	
TSCA Invento		all listed		
KE No.:		listed		
Concentration		45 - <60 %		
acc. CLP (GH	-			
acc. CLF (GIT	0).	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%.

List of H and P phrases: see section 16.1



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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 INTAKE 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 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

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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

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6.3	Methods and material for co	ntainment and cleaning up					
Bind any escaping liquid with inert absorbent. And dispose in accordance to local regulations for the disposal of hazardo 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						
SECT	ΓΙΟΝ 7: Handling and stora	age					
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.						
7.2	Conditions for safe storage,	including any incompatibilities					
	•	HEREY-NAGEL allows a safe storage. Products containing also	toxic substances should be kept				
	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, 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.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

30 mL Fe-1 Chemical: <i>thioglycolic ad</i> DNEL:	[inh] 1,13 mg/m³	CAS No.: 68-11-1
DNEL = Derived No-Effect	t Level (for workers)	
TRGS 900 (DE):	4 mg/m³ E/e respirable	
SUVA(CH) MAK value: NIOSH: [TWA] Time-weighted ave	1 ppm / 4 mg/m³ TWA [skin] 1 ppm / 4 mg/m³ erage to a reference period of 8 hours, [STEL] Short-term exposure limit	related to a 15-minute period
OSHA:	none	
Chemical: triazine deriva	ate	CAS No.: -

Chemical[.] acetate buffer solution

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**

Use for open access of these substances for example a protection filter, class A/AX. No additional recommendations.

Hand protection 8.2.2

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 protection

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

8.2.4 Skin protection

Recommended to avoid clothing damage, and to avoid contamination with these hazards.

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.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

30 mL Fe-1 Appearance: liquid

Flash point:

Colour: slightly yellow 3-4 63 °C

Odor: fusty, mouldy

9.2 Other information

pH:

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

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. ---

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.

30 mL Fe-1

v								
	Chemical:	thioglyc	olic acid				CAS No.: 68-11-1	
	TSCA Inventory:		listed	Californ	ia Proposition 65	List: not list	ed	
	Exposure Routes:		inhalation, skin a	bsorption, ing	jestion, skin and/o	or eye conta	act	
	Target Organs:		Eyes, skin, respi	atory system				
	Symptoms:		irritation eyes, sk	in, nose, thro	at; lacrimation (di	scharge of t	tears), corneal damage	e; skin burns,
	blisters; in animals: la	assitude	(weakness, exha	ust		-		
	Australia NICNAS:		not listed		Canada CEPA 19	99: DSL Ye	es	
	Japan CSCL/PRTR:		not listed, Japan	PDSCL: not	isted			
	Japan ISHL:		Article 57-2 (SDS					
	South Korea TCCA:		not listed					
	Korea Exist.Chem.Inv	ventorv.		Toxic 97-1-6	88			
	LD50 _{orl rat} :	,	73 mg/kg					
	LC_Low _{ihl mus} :		7 mg/m ³					
	LC Low _{skn rbt} :		300 mg/kg					
	LC50 _{ihl rat} :		0.21 mg/L					
			0	nhalation of v	anours skin cont	act imnairn	nents of health or can	lead to death even
	when only ingested in				apours, skin com	aot, impaim	ients of nearth of earl	
	when only ngested i	i Sinan c	juantitics.					
	Chemical:	triazina	derivate				CAS No.: -	
	TSCA Inventory:	liazine	listed				CAS NO	
	13CA Inventory.		listeu					
	Chemical:	acotato	buffer solution				CAS No.: -	
		acelale	all listed				CAS NO	
	TSCA Inventory:	ionton i						
	Korea Exist.Chem.Inv	ventory:	listed					



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SECT	ON 12: Ecological information	ation	
12.1	Toxicity Following information is valid for pur	e substances.	
	30 mL Fe-1 Chemical: thioglyco Avoid contact of substance/mi Bio Toxicity: Water hazard class (DE): Storage class (VCI):		CAS No.: 68-11-1
	Chemical: triazine o Storage class (VCI):	lerivate 12-13	CAS No.: -
	Chemical: acetate l Storage class (VCI):	buffer solution 12	CAS No.: -
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 ass no data available	essment	
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

Normally it is possible to empty small amounts (diluted!) into drains. Empty containers of corrosive reagents prior to disposal, rinse with water.

Dispose of contents/container to regulated waste treatment.

SECTION 14: Transport information

14.1. UN number: 14.3. Class: Road transport		UN proper shipping Packing group: II	name: Chemical Kit
Classification code: Limited Quantity:	M11 acc. ADR 3.3	Tunnel restriction coo 1/251: see LQ in Alter	de: E rnative declaration for transportation
Air transport PAX: CAO:	960 960	max. weight PAX: max. weight CAO:	10 KG 10 KG
<i>Maritime transport</i> EmS:	F-A, S-P	Storage category:	A

Or use Alternative declaration for transportation:

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



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14.5 **Environmental hazards**

none, contains only small quantities of hazardous substances

- 14.6 Special precautions for user not necessary
- Transport in bulk according to Annex II of MARPOL and the IBC Code 14.7 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

List of H and P phrases 16.1

16.1.1 List of relevant H phrases

		List of relevant if philases		
	H301	Toxic if swallowed.		
	H311	Toxic in contact with skin.		
	H314	Causes severe skin burns and eye damage.		
	H331	Toxic if inhaled.		
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

16.1

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

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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, 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 Merkblätter Gefährliche Arbeitsstoffe (Data Sheets of Hazardous Substances) KÜHN, BIRETT

Revisions/Updates

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

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