# **MACHEREY-NAGEL**



## **Safety Data Sheet**

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

REF: 931092	VISOCOLOR ECO Sulfate	Page: 1/9
Printing date: 01.10.2019	Date of issue: 25.07.2018	

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

-			
1.1	Product identifier	931092	
	Product name	VISOCOLOR ECO Sulfate	
	REACH Registration number(s): A registration number for the subs the substance or its use is exclude	see SECTION 3.1/3.2 or stance(s) does not exist because the annual tonnage does not require registration or ed from registration.	
		2 x 25 mL SO <sub>4</sub> -1 1 x 25 g SO <sub>4</sub> -2	
1.2	Relevant identified uses of th	e substance or mixture and uses advised against	
		cation according REACh, RIP 3.2 Codes: SU 0-2, PC 21, PROC 15, A ntegrated into sections 1-16.	4C 0
1.3	Details of the supplier of the s	safety data sheet	
	Manufactured by: MACHEREY-NAGEL GmbH & Co. Neumann-Neander-Str. 6-8, 52355 Tel.: +49 2421 969 0	KG	n-net.com)
1.4	Emergency telephone numbe	r	
	Outside Germany (DE): Call your r DE: Gemeinsames Giftinformations	egional Poisons Information Service or call local Life Saving Service. szentrum (GGIZ) 99089 Erfurt tel. +49 361 730 730	
	You find our current versions of SDS (22 lar	nguages) in Internet: http://www.mn-net.com/SDS	
SECT	ION 2: Hazard identificatio	n	

#### 2.0 Classification of the complete product

	GHS06 GHS07
Signal word	DANGER
Hazard identification	Hazard classes/categories
H290	Met. Corr. 1
H301	Acute Tox. 3 oral
H302	Acute Tox. 4 oral
H319	Eye Irrit. 2
H332	Acute Tox. 4 inh.

#### Classification of the substance or mixture 2.1

25 mL SO<sub>4</sub> -1

Signal word	Do not need labelling as hazardous -
Hazard identification	Hazard classes/categories
	-

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25 g SO<sub>4</sub> -2



DANGER

Signal word

Hazard identification	Hazard classes/categories
H301	Acute Tox. 3 oral
H302	Acute Tox. 4 oral
H319	Eye Irrit. 2
H332	Acute Tox, 4 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).

Harmful chemicals/mixtures with signal word: WARNING must not be labelled with H and P phrases until 125 mL (EU 1272/2008 Annex I - 1.5.2).

Metal corrosive solutions do not have to be labelled with GHS symbol, signal word, H and P phrases until 125 mL (EU 1272/2008 Annex I - 1.5.2.1.3).

### 25 mL SO<sub>4</sub> -1

Do not need labelling as hazardous Signal word: -

### 25 g SO<sub>4</sub> -2



Signal word: DANGER

H301 Toxic if swallowed.

P280sh, P301+310, P405 Wear protective gloves/eye protection. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Store locked up.

#### 2.3 Other hazards

### Possible hazards from physicochemical properties

In the case of pH values are less than 5 or higher than 9 then it is irritant. ---

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

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

Information pertaining to particular risks to the environment Avoid contact of substance/mixture to environment.

not applicable PBT:

vPvB: not applicable

Other hazards



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SECT	ION 3. Compo	sition/inf	ormation on ingredie	onte		
	-		-			
5.1	Substances or	3.2 Mixture	es			
	25 mL SO <sub>4</sub> -1					
	Chem		chloric acid	0 (D. 1100 ( A. 1	CAS No.: 7647-01-0	
	Classi Formu	ification:	H290, Met. Corr. 1, H314, Skir HCI•H <sub>2</sub> O	i Corr. 1B, H331, Acute	Tox. 3 inh.	
		lonym:	aqueous hydrogen chloride			
		Inventory:	listed			
		H Reg. No.:	01-2119484862-27-xxxx			
	EC No		231-595-7	Indice No.:	017-002-01-X	
	RTEC		MW4025000		011 002 01 X	
	KE No		KE-20189, >10% Toxic 97-1-2	03. Acc. Precaution Ch	em.	
		entration:	1 - <10 %			
	acc. C	CLP (GHS):	H290, Met. Corr. 1			
	25 g SO <sub>4</sub> -2					
	Chem	ical: <i>bariur</i>	n chloride		CAS No.: 10361-37-2	
	Classi	ification:	H301, Acute Tox. 3 oral, H332	, Acute Tox. 4 inh.		
	Formu	ıla:	BaCl <sub>2</sub>			
	Pseud	lonym:	barium dichloride			
		Inventory:	listed			
		H Reg. No.:	01-2119502547-42-xxxx			
	EC No		233-788-1	Indice No.:	056-004-00-8	
	RTEC		CQ8751000	MFCD:	00003445	
	KE No		KE-02037		/ -/	
		entration:	40 - <60 %		r: x 0.66 (= %Ba)	
			b weight percent of the metal (according t	•	2/EC Annex VI, 1.1.3.2 Note 1)	
	acc. C	CLP (GHS):	H301, Acute Tox. 3 oral, H332	, Acute Tox. 4 inh.		
	Chem	ical: ammo	onium chloride		CAS No.: 12125-02-9	
	Classi	ification:	H302, Acute Tox. 4 oral, H319	, Eye Irrit. 2		
	Formu		NH <sub>4</sub> Cl			
		Inventory:	listed			
		H Reg. No.:	01-2119487950-27-xxxx			
	EC No		231-211-8	Indice No.:	017-014-00-8	
	RTEC		BP4550000	MFCD:	00011420	
	KE No		KE-01645			
		entration:	40 - <70 %	Evalurit 0		
	acc. C	CLP (GHS):	H302, Acute Tox. 4 oral, H319	, Eye Irrit. 2		

#### 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. Rinse the affected skin or mucous membrane thoroughly under running water. (If possible) use soap

#### After EYE Contact 4.1.2

After contact with the eyes rinse thoroughly under running water with the eyelid wide open with eye washing bottle, eye douche or running water (protect intact eye).

#### After INHALATION of vapours 4.1.3

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. ---

#### 4.2 Most important symptoms and effects, both acute and delayed

#### 4.3 Indication of any immediate medical attention and special treatment needed

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

Do not breathe vapours. Wear suitable protective gloves (see 8.2.2). 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 necessarv

#### 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.

#### 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): 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, 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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	0			
SEC	TION 8: Exposure co	ontrols/personal protect	ion	
8.1	<b>Control parameters</b>			
	PNEC <sub>(fresh water)</sub> : PNEC = Predicted EU value:	[inh] 8 mg/m <sup>3</sup> -Effect Level (for workers) 36 µg/L No Effected Concentration [TWA] 5 ppm / 8 mg/m <sup>3</sup> ; [STEL	CAS No.: 76 ] 10 ppm/ 15 mg/m³	647-01-0
	SUVA(CH) MAK value NIOSH:	respiratory sensitizable (Sa), skin sensitizable 2 ppm / 3* mg/m <sup>3</sup> [C] 5 ppm / 7 mg/m <sup>3</sup>	(Sh), teratogenic (Z) not securely excluded / (Y) ce EL] Short-term exposure limit related to a 15-minu	
	OSHA: mg/m³		als, toxics and reactives Yes (TQ = 5000	
	<b>25 g SO</b> 4 <b>-2</b> Chemical: <i>barium c</i> EU value: TRGS 900 (DE):	hloride 0.5 <sub>Ba</sub> e mg/m³ 0,5 <sub>Ba</sub> E mg/m³ E/e respirable	CAS No.: 10	361-37-2
	SUVA(CH) MAK value NIOSH:	respiratorỳ sénsitizable (Sa), skin sensitizable 0,5 e mg/m³ TWA 0.5 <sub>Ba</sub> mg/m³	(Sh), teratogenic (Z) not securely excluded / (Y) ce EL] Short-term exposure limit related to a 15-minu	
	Chemical: ammoni DNEL:	<i>um chloride</i> 128.9 <sub>derm</sub> mg/kg -Effect Level (for workers) 0.25 mg/L No Effected Concentration	CAS No.: 12	2125-02-9
8.2		tion system in the room, floor resistant maintained at the workplace.	to chemicals with floor drainage and wa	shing facilities. The highest
8.2.1	Respiratory protection No additional recommendation	n		
8.2.2		EN 374 (permeation time >30 min - le∿ imes chemical resistant latex gloves w	el 2), consist of PVC, natural latex, Neoj ith code EN 374-3 level 1.	pren, or Nitril (f.ex. from Ansell
972	Evo protection			

### 8.2.3

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

#### 8.2.4 Skin protection

Recommended 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

25 mL SO<sub>4</sub> -1 Appearance: liquid pH: Specific gravity: Solubility in water:

Colour: colourless 0-1 1,04 g/cm<sup>3</sup> 0-100 %

Odor: penetrative

25 g SO<sub>4</sub> -2 Appearance: powder (solid) pH:

Colour: colourless 6-7

Odor: odorless

#### 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

no further data available.

- 10.2 Chemical stability No known instability.
- 10.3 Possibility of hazardous reactions 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

#### Information on toxicological effects 11.1

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

### 25 mL SO<sub>4</sub> -1

Chemical: hy	drochloric acid	CAS No.: 7647-01-0	
TSCA Inventory:	listed	California Proposition 65 List: not listed	
Exposure Routes:	inhalation, inges	tion (solution), skin and/or eye contact	
Target Organs:	Eyes, skin, resp		
Symptoms:		roat, larynx; cough, choking; dermatitis; solution: eye, skin burns; liquid: frostbite; in	
animals: laryngeal spasi	n; pulmonary ede		
Australia NICNAS:	not listed	Canada CEPA 1999: DSL Yes	
Japan CSCL/PRTR:	not listed, Japan	PDSCL: Deleterious Substance	
Japan ISHL:	listed ≥0,2%/≥0,	1%, Article 57-2 (SDS required)	
South Korea TCCA:	Accident Precau	tion Chemical Yes	
	tory: KE-20189, >10%	5 Toxic 97-1-203, Acc. Precaution Chem.	
LD50 <sub>orl rat</sub> :	900 mg/kg		
LC50 <sub>drm rbt</sub> :	>5010 mg/kg		

### 25 a SO<sub>4</sub> -2

•		
Chemical:	barium chloride C	AS No.: 10361-37-2
TSCA Inventory:	listed	
Exposure Routes:	inhalation, ingestion, skin and/or eye contact	
Target Organs:	Eyes, skin, respiratory system, heart, central nervous system	



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REF: 931092 VISOCOLOR ECO Sulfate Page: 7/9 Date of issue: 25.07.2018 Printing date: 01.10.2019 Symptoms: irritation eyes, skin, upper respiratory system; skin burns; gastroenteritis; muscle spasm; slow pulse, extrasystoles; hypokalemia Japan CSCL/PRTR: not listed, Japan PDSCL: Deleterious substance Japan ISHL: listed ≥1,0%/≥1,0% Korea Exist.Chem.Inventory: KE-02037 LD50<sub>orl rat</sub> : 118 mg/kg LC\_Loworl hmn 11.4 mg/kg Acute Effects: Cause severe after oral intake, impairments of health or can lead to death even when only ingested in small quantities. Acute Effects: Cause after skin contact, impairments of health when ingested in small quantities. Chemical. ammonium chloride CAS No.: 12125-02-9 TSCA Inventory: listed not listed, Japan PDSCL: not listed Japan CSCL/PRTR: Japan ISHL: listed ≥1,0%/≥1,0%, Korea Exist Chem Inventory: KE-01645 1440 mg/kg LD50<sub>orl rat</sub> : LC\_Loworl rbt : 1000 mg/kg LC50<sub>ihl rat</sub>: 1000 ppm/4h LD50orl mus 1300 mg/kg Acute Effects: Cause after oral intake, impairments of health when ingested in small quantities. **SECTION 12: Ecological information** 12.1 Toxicity Following information is valid for pure substances. 25 mL SO<sub>4</sub> -1 Chemical: hydrochloric acid CAS No.: 7647-01-0 PNEC (fresh water) : PNEC = Predicted No Effected Concentration 36 µg/L LC50fish/96h: 24.6 ma/L EC50<sub>daphnia/48h</sub>: 0.492 mg/L EC50pseudokirchneriella subcapitata/72h 0.78 mg/L Water hazard class (DE): WGK No.: 0238 1 Storage class (VCI): 8 B 25 g SO<sub>4</sub> -2 Chemical: barium chloride CAS No.: 10361-37-2 Avoid contact of substance/mixture to environment. LC50leuciscus idus/96h : 870 mg/L EC50<sub>daphnia/48h</sub>: 21.9 mg/L Water hazard class (DE): WGK No.: 0025 1 Storage class (VCI): 6.1 B CAS No.: 12125-02-9 Chemical: ammonium chloride PNEC(fresh water): PNEC = Predicted No Effected Concentration 0.25 mg/L LC50<sub>fish/96h</sub>: 42.9 mg/L EC50daphnia/48h 136.6 mg/L EC50chlorella vulgaris/5d EC50/5d: 1300 mg/L Water hazard class (DE): 1 WGK No.: 0213 Dispersion coefficient(octanol-water): -4.37 Storage class (VCI): 12-13 12.2 Persistence and degradability not necessarv 12.3 **Bioaccumulative potential** not necessary 12.4 Mobility in soil not necessary



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#### 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

Normally it is possible to empty small amounts (diluted!) into drains. Dispose of contents/container to regulated waste treatment.

### **SECTION 14: Transport information**

	UN number: Class:	3316 9		UN proper shipping Packing group: II	name: Chemical Kit
Road	transport				
Classification code:		M11		Tunnel restriction cod	le: E
Limited Quantity:		acc. Al	DR 3.3	1/251: see LQ in Alteri	native declaration for transportation
Air transport					
PAX:		960		max. weight PAX:	10 KG
CAO:		960		max. weight CAO:	10 KG
Maritime transport				-	
EmS:		F-A, S-	-P	Storage category:	A

Or use Alternative declaration for transportation:

UN No.: (see below) class 6.1 III, Excepted Quantities (≤30 mL/∑≤1 L) = ADR/ IATA E1 or

14.1 UN number: 14.3 Class:		UN proper shipping n Packing group: III	ame: Barium compound, n.o.s.
Road transport			
Classification code:	T5		
Limited Quantity:	5 Kg Tunnel restriction code: E		
Excepted Quantity:	E1	Special instructions:	513
Air transport			
PAX:	670	max. weight PAX:	100 Kg
CAO:	677	max. weight CAO:	200 Kg
Maritime transport		-	-
EmS:	F-A, S-A	Storage category:	A

#### 14.5 **Environmental hazards**

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 ---

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## **SECTION 16: Other information**

#### 16.1 List of H and P phrases

#### 16 1 1 List of relevant H phrases

	H290	May be corrosive to metals.			
	H301	Toxic if swallowed.			
	H302	Harmful if swallowed.			
	H319	Causes serious eye irritation.			
	H332	Harmful if inhaled.			
2	List of relevant P phrases				
	P261sh	Avoid breathing dust/vapours.			
	P264W	Wash with water thoroughly after handling.			
	P280sh	Wear protective gloves/eye protection.			
	P301+310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.			
	P301+312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.			
	P330	Rinse mouth.			
	P390	Absorb spillage to prevent material damage.			

Store locked up.

#### 16.2 Training advice

P405

16.1.2

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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#### 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

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