

Page 1 of 19 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 08.04.2021 / 0001 Replacing version dated / version: 08.04.2021 / 0001 Valid from: 08.04.2021 PDF print date: 02.06.2021 Vario-Sol FP 440 g Art.: 9094731

> Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

1.1 Product identifier

Vario-Sol FP 440 g Art.: 9094731

1.2 Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses of the substance or mixture: Discs
Uses advised against: No information available at present.

1.3 Details of the supplier of the safety data sheet

BTI Befestigungstechnik GmbH & Co. KG Salzstr. 51 74653 Ingelfingen Tel.: +49 7940 141 141 Fax: +49 7940 141 9141 Email: info@bti.de Homepage: www.bti.de

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

1.4 Emergency telephone number Emergency information services / official advisory body: ---**Telephone number of the company in case of emergencies:** +49 (0) 700 / 24 112 112 (BRC)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Classification according to Regulation (EC) 1272/2008 (CLP) This is an article.

2.2 Label elements
Labeling according to Regulation (EC) 1272/2008 (CLP)
This is an article.
Not applicable
2.3 Other hazards



Page 2 of 19 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 08.04.2021 / 0001 Replacing version dated / version: 08.04.2021 / 0001 Valid from: 08.04.2021 PDF print date: 02.06.2021 Vario-Sol FP 440 g Art.: 9094731

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0.1 %).

SECTION 3: Composition/information on ingredients

3.1 Substances

n.a.

3.2 Mixtures

Calcium oxide	Substance for which an EU exposure limit
	value applies.
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	215-138-9
CAS	1305-78-8
content %	<2
Classification according to Regulation (EC) 1272/2008	Eye Dam. 1, H318
(CLP), M-factors	

Zinc oxide	
Registration number (REACH)	01-2119463881-32-XXXX
Index	030-013-00-7
EINECS, ELINCS, NLP, REACH-IT List-No.	215-222-5
CAS	1314-13-2
content %	<2
Classification according to Regulation (EC) 1272/2008	Aquatic Acute 1, H400 (M=1)
(CLP), M-factors	Aquatic Chronic 1, H410 (M=1)

N-cyclohexylbenzothiazole-2-sulphenamide	
Registration number (REACH)	01-2119486796-16-XXXX
Index	613-136-00-6
EINECS, ELINCS, NLP, REACH-IT List-No.	202-411-2
CAS	95-33-0
content %	<2
Classification according to Regulation (EC) 1272/2008	Skin Sens. 1, H317
(CLP), M-factors	Aquatic Acute 1, H400 (M=1)
	Aquatic Chronic 1, H410 (M=10)

Sulfur	
Registration number (REACH)	01-2119487295-27-XXXX
Index	016-094-00-1
EINECS, ELINCS, NLP, REACH-IT List-No.	231-722-6
CAS	7704-34-9
content %	<2
Classification according to Regulation (EC) 1272/2008	Skin Irrit. 2, H315
(CLP), M-factors	

Stearic acid



Page 3 of 19 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 08.04.2021 / 0001 Replacing version dated / version: 08.04.2021 / 0001 Valid from: 08.04.2021 PDF print date: 02.06.2021 Vario-Sol FP 440 g Art.: 9094731

Registration number (REACH)	
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	200-313-4
CAS	57-11-4
content %	<2
Classification according to Regulation (EC) 1272/2008	Skin Irrit. 2, H315
(CLP), M-factors	

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16. The substances named in this section are given with their actual, appropriate classification! For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

SECTION 4: First aid measures

4.1 Description of first aid measures First-aiders should ensure they are protected! Never pour anything into the mouth of an unconscious person! Inhalation Typically no exposure pathway. Skin contact Wash thoroughly with soap and water. Eve contact Wash thoroughly for several minutes using copious water. Seek medical help if necessary. Ingestion Typically no exposure pathway. 4.2 Most important symptoms and effects, both acute and delayed If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1. In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours. 4.3 Indication of any immediate medical attention and special treatment needed Symptomatic treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing media
Adapt to the nature and extent of fire.
Unsuitable extinguishing media
High volume water jet
5.2 Special hazards arising from the substance or mixture
In case of fire the following can develop:
Oxides of carbon
Oxides of sulphur
Toxic gases
5.3 Advice for firefighters
In case of fire and/or explosion do not breathe fumes.
Protective respirator with independent air supply.
According to size of fire



Page 4 of 19
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 08.04.2021 / 0001
Replacing version dated / version: 08.04.2021 / 0001
Valid from: 08.04.2021
PDF print date: 02.06.2021
Vario-Sol FP 440 g
Art.: 9094731

Full protection, if necessary. Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
No special measures required.
6.2 Environmental precautions
Normally not necessary.
6.3 Methods and material for containment and cleaning up
Pick up mechanically and dispose of according to Section 13.
6.4 Reference to other sections
For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling

7.1.1 General recommendations

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities

Not to be stored in gangways or stair wells.

Store product closed and only in original packing.

Store at room temperature.

Store in a dry place.

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Materials are integrated into the product and should not lead to any exposure under normal handling conditions.

	Chemical	Name	Calcium oxide	;			Content %:<2
		1 mg/m3 (9) ((WEL, EU)	WEL-STEL:	4 mg/m3	(9) (WEL, EU)	
Mon	nitoring pro	ocedures:	-				
BM	GV:					Other information:	
⁶⁸	Chemical	Name	Carbon black				Content %:
_		Name 3,5 mg/m3	Carbon black	WEL-STEL:	7 mg/m3		 Content %:
WEI		3,5 mg/m3		WEL-STEL:	7 mg/m3		 Content %:
WEI Mon	L-TWA:	3,5 mg/m3			7 mg/m3	Other information:	Content %:



Page 5 of 19 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 08.04.2021 / 0001 Replacing version dated / version: 08.04.2021 / 0001 Valid from: 08.04.2021 PDF print date: 02.06.2021 Vario-Sol FP 440 g Art.: 9094731

Chemical Name	general dust li	mit		Content %:
WEL-TWA: 10 mg/m3 (inl	hal. dust), 4	WEL-STEL:		
mg/m3 (respir. dust)				
Monitoring procedures:	-			
BMGV:		Other information:		

Area of application	Exposure route / Environmental compartment	Effect on health	Descript or	Value	Unit	Note
	Environment - freshwater		PNEC	20,6	µg/l	
	Environment - marine		PNEC	6,1	µg/l	
	Environment - sewage treatment plant		PNEC	100	µg/l	
	Environment - sediment, freshwater		PNEC	118	mg/kg	
	Environment - sediment, marine		PNEC	56,5	mg/kg	
	Environment - soil		PNEC	35,6	mg/kg	
Consumer	Human - inhalation	Short term, local effects	DNEL	3,1	mg/m3	
Consumer	Human - inhalation	Long term, local effects	DNEL	1,5	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	83	mg/kg	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	2,5	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,83	mg/kg bw/day	
Workers / employees	Human - dermal	Short term, local effects	DNEL	6223	mg/kg bw/day	
Workers / employees	Human - dermal	Long term, local effects	DNEL	83	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	0,5	mg/m3	
Workers / employees	Human - oral	Short term, local effects	DNEL	62,2	mg/kg bw/day	
Workers / employees	Human - inhalation	Short term, local effects	DNEL	6,2	mg/m3	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	5	mg/m3	

Carbon black						
Area of application	Exposure route / Environmental compartment	Effect on health	Descript or	Value	Unit	Note



Page 6 of 19 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 08.04.2021 / 0001 Replacing version dated / version: 08.04.2021 / 0001 Valid from: 08.04.2021 PDF print date: 02.06.2021 Vario-Sol FP 440 g Art.: 9094731

	Environment -		PNEC	1	mg/l	
	freshwater					
	Environment - marine		PNEC	0,1	mg/l	
Consumer	Human - inhalation	Long term,	DNEL	0,06	mg/m3	
		systemic effects				

White mineral oil (Natural oil)						
Area of application	Exposure route / Environmental compartment	Effect on health	Descript or	Value	Unit	Note
Consumer	Human - dermal	Long term, systemic effects	DNEL	92	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	35	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	40	mg/kg bw/day	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	220	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	160	mg/m3	

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).
(8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).

(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value,

Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

(13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. EN 14042.



Page 7 of 19 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 08.04.2021 / 0001 Replacing version dated / version: 08.04.2021 / 0001 Valid from: 08.04.2021 PDF print date: 02.06.2021 Vario-Sol FP 440 g Art.: 9094731

EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable. Wash hands before breaks and at end of work. Keep away from food, drink and animal feedingstuffs. Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection: Normally not necessary.

Skin protection - Hand protection: Normally not necessary. If applicable Leather gloves.

Skin protection - Other: Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection: Normally not necessary.

Thermal hazards: Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls

No information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical	l and chemical properties
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Physical state:	Solid
Colour:	Black
Odour:	Odourless
Odour threshold:	Not determined
pH-value:	Mixture is non-soluble (in water).



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Page 8 of 19 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 08.04.2021 / 0001 Replacing version dated / version: 08.04.2021 / 0001 Valid from: 08.04.2021 PDF print date: 02.06.2021 Vario-Sol FP 440 g Art.: 9094731

Melting point/freezing point: Initial boiling point and boiling range: Flash point: Evaporation rate: Flammability (solid, gas): Lower explosive limit: Upper explosive limit: Vapour pressure: Vapour density (air = 1): Density: Bulk density: Solubility(ies): Water solubility: Partition coefficient (n-octanol/water): Auto-ignition temperature: Decomposition temperature: Viscosity: Explosive properties: Oxidising properties: 9.2 Other information Miscibility: Fat solubility / solvent: Conductivity: Surface tension: Solvents content:

Not determined Not determined Does not apply to solids. Not determined Not determined Does not apply to solids. Does not apply to solids. Not determined Does not apply to solids. n.a. Not determined Not determined Insoluble Not determined Does not apply to solids. Not determined <=20,5 mm2/s (40°C) Not determined Not determined Not determined

Not determined Not determined Not determined Not determined

SECTION 10: Stability and reactivity

10.1 Reactivity
The product has not been tested.
10.2 Chemical stability
Stable with proper storage and handling.
10.3 Possibility of hazardous reactions
No dangerous reactions are known.
10.4 Conditions to avoid
None known
10.5 Incompatible materials
None known
10.6 Hazardous decomposition products
No decomposition when used as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Possibly more information on health effects, see Section 2.1 (classification).

Vario-Sol FP 440 g Art.: 9094731						
Toxicity / effect	Endpoi nt	Value	Unit	Organism	Test method	Notes



Page 9 of 19 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 08.04.2021 / 0001 Replacing version dated / version: 08.04.2021 / 0001 Valid from: 08.04.2021 PDF print date: 02.06.2021 Vario-Sol FP 440 g Art.: 9094731

1	 	1	
Acute toxicity, by oral			n.d.a.
route:			
Acute toxicity, by			n.d.a.
dermal route:			
Acute toxicity, by			n.d.a.
inhalation:			
Skin corrosion/irritation:			n.d.a.
Serious eye			n.d.a.
damage/irritation:			
Respiratory or skin			n.d.a.
sensitisation:			
Germ cell mutagenicity:			n.d.a.
Carcinogenicity:			n.d.a.
Reproductive toxicity:			n.d.a.
Specific target organ			n.d.a.
toxicity - single			
exposure (STOT-SE):			
Specific target organ			n.d.a.
toxicity - repeated			
exposure (STOT-RE):			
Aspiration hazard:			n.d.a.
Symptoms:			n.d.a.

Calcium oxide						
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant
					Dermal	
					Irritation/Corrosio	
					n)	
Serious eye						Intensively
damage/irritation:						irritant
Respiratory or skin				Human	IUCLID Chem.	Not
sensitisation:				being	Data Sheet (ESIS)	sensitizising
Germ cell mutagenicity:				Salmonella	IUCLID Chem.	Negative
				typhimuri	Data Sheet (ESIS)	
				um		

Zinc oxide						
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
Acute toxicity, by oral	LD50	>15000	mg/kg	Rat	OECD 401 (Acute	
route:					Oral Toxicity)	
Acute toxicity, by	LD50	> 2000	mg/kg	Rat	OECD 402 (Acute	
dermal route:					Dermal Toxicity)	
Acute toxicity, by	LC50	>5,7	mg/l/4h	Rat	OECD 403 (Acute	Aerosol
inhalation:					Inhalation	
					Toxicity)	



Page 10 of 19 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 08.04.2021 / 0001 Replacing version dated / version: 08.04.2021 / 0001 Valid from: 08.04.2021 PDF print date: 02.06.2021 Vario-Sol FP 440 g Art.: 9094731

Skin corrosion/irritation:	Rabbit	OECD 404 (Acute Dermal	Not irritant
		Irritation/Corrosio	
		n)	
Serious eye	Rabbit	OECD 405 (Acute	Not irritant
damage/irritation:		Eye	
		Irritation/Corrosio	
		n)	
Respiratory or skin	Guinea pig	OECD 406 (Skin	Not
sensitisation:		Sensitisation)	sensitizising
Germ cell mutagenicity:		(Ames-Test)	Negative
Germ cell mutagenicity:		OECD 471	Negative
		(Bacterial Reverse	
~		Mutation Test)	
Symptoms:			breathing
			difficulties,
			chest pain
			(thorax
			pain),
			diarrhoea,
			fever, joint
			pain,
			coughing,
			headaches,
			circulatory disorders,
			metal fume
			fever,
			muscle
			pains, mucous
			membrane
			irritation,
			nausea and
			vomiting.
			vonnung.

N-cyclohexylbenzothiazole-2-sulphenamide							
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes	
	nt						
Acute toxicity, by oral	LD50	5300	mg/kg	Rat			
route:							
Acute toxicity, by	LD50	7940	mg/kg	Rabbit			
dermal route:							
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Mild irritant	
					Dermal		
					Irritation/Corrosio		
					n)		
Serious eye						Mild irritant	
damage/irritation:							



Page 11 of 19 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 08.04.2021 / 0001 Replacing version dated / version: 08.04.2021 / 0001 Valid from: 08.04.2021 PDF print date: 02.06.2021 Vario-Sol FP 440 g Art.: 9094731

Respiratory or skin	Human	Sensitising
sensitisation:	being	(skin
		contact)
Symptoms:		breathing
		difficulties,
		headaches,
		gastrointestin
		al
		disturbances,
		mucous
		membrane
		irritation,
		dizziness,
		nausea

Sulfur						
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	nt LD50	>2000	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>9,23	mg/l/4h	Rat	•	
Acute toxicity, by inhalation:	LC50	>5,43	mg/l/4h	Rat	U.S. EPA 81-3	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio n)	Skin Irrit. 2
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	Not irritant
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Not sensitizising
Germ cell mutagenicity:				Salmonella typhimuri um	bacterial	Negative
Symptoms:						breathing difficulties, diarrhoea, mucous membrane irritation

Stearic acid						
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
Acute toxicity, by oral route:	LD50	21500	mg/kg	Rat		



Page 12 of 19 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 08.04.2021 / 0001 Replacing version dated / version: 08.04.2021 / 0001 Valid from: 08.04.2021 PDF print date: 02.06.2021 Vario-Sol FP 440 g Art.: 9094731

Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit		
Serious eye damage/irritation:				Rabbit		Not irritant
Respiratory or skin sensitisation:						No indications of such an effect.
Germ cell mutagenicity:					(Ames-Test)	Negative, No indications of such an effect.
Carcinogenicity:						Negative
Symptoms:						mucous membrane irritation

Carbon black						
Toxicity / effect	Endpoi nt	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	>3000	mg/kg			
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio n)	Not irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	Not irritant
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Not sensitizising
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Carcinogenicity:				Mouse	,	Negative
Specific target organ toxicity - repeated exposure (STOT-RE):	NOEL	0,0011	mg/l			References, Target organ(s): lung90d
Aspiration hazard:						No
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	137	mg/kg	Mouse		



Page 13 of 19 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 08.04.2021 / 0001 Replacing version dated / version: 08.04.2021 / 0001 Valid from: 08.04.2021 PDF print date: 02.06.2021 Vario-Sol FP 440 g Art.: 9094731

Specific target organ	NOAEL	52	mg/kg	Rat	
toxicity - repeated					
exposure (STOT-RE),					
oral:					

SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).

Vario-Sol FP 440 g									
Art.: 9094731									
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes		
12.1. Toxicity to							n.d.a.		
fish:									
12.1. Toxicity to							n.d.a.		
daphnia:									
12.1. Toxicity to							n.d.a.		
algae:									
12.2. Persistence							n.d.a.		
and degradability:									
12.3.							n.d.a.		
Bioaccumulative									
potential:									
12.4. Mobility in							n.d.a.		
soil:									
12.5. Results of							n.d.a.		
PBT and vPvB									
assessment									
12.6. Other							n.d.a.		
adverse effects:									
Other information:							DOC-		
							elimination		
							degree(comp		
							lexing		
							organic		
							substance)>=		
							80%/28d:		
							n.a.		

Calcium oxide							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to	LC50	96h	1070	mg/l		IUCLID	
fish:						Chem. Data	
						Sheet (ESIS)	
Water solubility:			1650	mg/l			

Zinc oxide							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes



Page 14 of 19 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 08.04.2021 / 0001 Replacing version dated / version: 08.04.2021 / 0001 Valid from: 08.04.2021 PDF print date: 02.06.2021 Vario-Sol FP 440 g Art.: 9094731

12.2. Persistence and degradability:							Not relevant for inorganic substances.
12.3. Bioaccumulative potential:							Not relevant for inorganic substances.
12.4. Mobility in soil:	Log Koc		2,2				
12.1. Toxicity to fish:	LC50	96h	1,1- 2,5	ppm	Oncorhynchus mykiss		
12.1. Toxicity to fish:	LC50	96h	3,31- 8,062	mg/l	Brachydanio rerio		
12.1. Toxicity to fish:	LC50	96h	>320	mg/l	Lepomis macrochirus		
12.1. Toxicity to daphnia:	EC50	48h	1	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisatio n Test)	
12.1. Toxicity to daphnia:	EC50	48h	0,413- 0,83	mg/l	Ceriodaphnia spec.	U.S. EPA ECOTOX Database	
12.1. Toxicity to algae:	EC50	72h	0,17	mg/l	Selenastrum capricornutum		
12.1. Toxicity to algae:	NOEC/NO EL	72h	0,017	mg/l	Pseudokirchne riella subcapitata		
12.1. Toxicity to algae:	EC50	72h	0,136	mg/l	Scenedesmus quadricauda	OECD 201 (Alga, Growth Inhibition Test)	
12.4. Mobility in soil:			158,5	L/kg		,	
12.5. Results of PBT and vPvB assessment							Not relevant for inorganic substances.

N-cyclohexylbenzothiazole-2-sulphenamide									
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes		
12.1. Toxicity to	LC50	96h	7,9	mg/l	Lepomis				
fish:					macrochirus				
12.1. Toxicity to	LC50	96h	5,4	mg/l	Oncorhynchus				
fish:					mykiss				
12.1. Toxicity to	LC50	96h	>1000	mg/l	Pimephales				
fish:				-	promelas				
12.1. Toxicity to	NOEC/NO	14d	0,14	mg/l	Oryzias				
fish:	EL				latipes				



Page 15 of 19 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 08.04.2021 / 0001 Replacing version dated / version: 08.04.2021 / 0001 Valid from: 08.04.2021 PDF print date: 02.06.2021 Vario-Sol FP 440 g Art.: 9094731

12.1. Toxicity to	EC50	48h	0,79	mg/l	Daphnia	OECD 202
daphnia:					magna	(Daphnia sp.
						Acute
						Immobilisatio
						n Test)
12.1. Toxicity to	NOEC/NO	72h	0,008	mg/l	Selenastrum	OECD 201
algae:	EL		4		capricornutum	(Alga,
						Growth
						Inhibition
						Test)
12.1. Toxicity to	IC50	96h	0,9	mg/l	Selenastrum	OECD 201
algae:					capricornutum	(Alga,
						Growth
						Inhibition
						Test)

Sulfur							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to	LC50	96h	866	mg/l	Brachydanio		
fish:					rerio		
12.1. Toxicity to	EC0	24h	>1000	mg/l	Daphnia		
daphnia:			0		magna		
12.2. Persistence							Not relevant
and degradability:							for inorganic
							substances.
12.3.							Not to be
Bioaccumulative							expected
potential:							
Toxicity to	EC50	3h	>1900	mg/l	0		
bacteria:							

Stearic acid							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to	LC50	48h	>1000	mg/l	Cyprinus		
fish:					caprio		
12.2. Persistence		28d	>70	%		OECD 301 B	
and degradability:						(Ready	
						Biodegradabil	
						ity - Co2	
						Evolution	
						Test)	
Toxicity to	EC50	16h	>100	mg/l	Pseudomonas		
bacteria:					putida		

Carbon black									
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes		
Water solubility:							Insoluble,		
							Product		
							floats on the		
							water		
							surface.		



Page 16 of 19 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 08.04.2021 / 0001 Replacing version dated / version: 08.04.2021 / 0001 Valid from: 08.04.2021 PDF print date: 02.06.2021 Vario-Sol FP 440 g Art.: 9094731

12.1. Toxicity to	LC50	96h	>1000	mg/l	Brachydanio	OECD 203	
fish:				8, -	rerio	(Fish, Acute	
						Toxicity Test)	
12.1. Toxicity to	EC50	24h	>5600	mg/l	Daphnia	OECD 202	
daphnia:					magna	(Daphnia sp.	
					U	Acute	
						Immobilisatio	
						n Test)	
12.1. Toxicity to	NOEC/NO	3d	10000	mg/l	Scenedesmus	OECD 201	
algae:	EL				subspicatus	(Alga,	
					-	Growth	
						Inhibition	
						Test)	
12.2. Persistence							Not
and degradability:							biodegradabl
							e
12.3.							Not to be
Bioaccumulative							expected
potential:							
Toxicity to	EC0	3h	>=800	mg/l	activated	Regulation	
bacteria:					sludge	(EC)	
						440/2008	
						C.22 (SOIL	
						MICROORG	
						ANISMS -	
						CARBON	
						TRANSFOR	
						MATION	
						TEST)	

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

EC disposal code no .:

The waste codes are recommendations based on the scheduled use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU) 07 02 13 waste plastic 20 01 39 Plastics Recommendation: Sewage disposal shall be discouraged. Pay attention to local and national official regulations. E.g. dispose at suitable refuse site. E.g. suitable incineration plant. **For contaminated packing material** Pay attention to local and national official regulations. Recommendation:

Recycling



Page 17 of 19
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 08.04.2021 / 0001
Replacing version dated / version: 08.04.2021 / 0001
Valid from: 08.04.2021
PDF print date: 02.06.2021
Vario-Sol FP 440 g
Art.: 9094731

15 01 01 paper and cardboard packaging

SECTION 14: Transport information

General statements								
14.1. UN number:	n.a.							
Transport by road/by rail (ADR/RID)								
14.2. UN proper shipping name:								
14.3. Transport hazard class(es):	n.a.							
14.4. Packing group:	n.a.							
Classification code:	n.a.							
LQ:	n.a.							
14.5. Environmental hazards:	Not applicable							
Tunnel restriction code:								
Transport by sea (IMDG-code)								
14.2. UN proper shipping name:								
14.3. Transport hazard class(es):	n.a.							
14.4. Packing group:	n.a.							
Marine Pollutant:	n.a							
14.5. Environmental hazards:	Not applicable							
Transport by air (IATA)								
14.2. UN proper shipping name:								
14.3. Transport hazard class(es):	n.a.							
14.4. Packing group:	n.a.							
14.5. Environmental hazards:	Not applicable							
14.6. Special precautions for user								
Unless specified otherwise, general measures for safe transport must be followed.								
14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code								
Non-dangerous material according to Transport Regulations								

Non-dangerous material according to Transport Regulations.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Observe restrictions: General hygiene measures for the handling of chemicals are applicable.

Directive 2010/75/EU (VOC):

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

n.a.

< 0,01 %

Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP): Not applicable



Page 18 of 19 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 08.04.2021 / 0001 Replacing version dated / version: 08.04.2021 / 0001 Valid from: 08.04.2021 PDF print date: 02.06.2021 Vario-Sol FP 440 g Art.: 9094731

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3). H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.

Eye Dam. — Serious eye damage Aquatic Acute — Hazardous to the aquatic environment - acute Aquatic Chronic — Hazardous to the aquatic environment - chronic Skin Sens. — Skin sensitization Skin Irrit. — Skin irritation

Any abbreviations and acronyms used in this document:

acc., acc. to according, according to ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road) AOX Adsorbable organic halogen compounds approximately approx. Art., Art. no. Article number ASTM ASTM International (American Society for Testing and Materials) ATE Acute Toxicity Estimate BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany) BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany) BSEF The International Bromine Council body weight hw CAS **Chemical Abstracts Service** Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling CLP and packaging of substances and mixtures) CMR carcinogenic, mutagenic, reproductive toxic DMEL Derived Minimum Effect Level DNEL Derived No Effect Level dw dry weight for example (abbreviation of Latin 'exempli gratia'), for instance e.g. EC European Community ECHA European Chemicals Agency EEC European Economic Community **EINECS** European Inventory of Existing Commercial Chemical Substances **ELINCS** European List of Notified Chemical Substances EN **European Norms** EPA United States Environmental Protection Agency (United States of America) etc. et cetera EU European Union EVAL Ethylene-vinyl alcohol copolymer



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Page 19 of 19 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 08.04.2021 / 0001 Replacing version dated / version: 08.04.2021 / 0001 Valid from: 08.04.2021 PDF print date: 02.06.2021 Vario-Sol FP 440 g Art.: 9094731

Fax. Fax number

- gen. general
- GHS Globally Harmonized System of Classification and Labelling of Chemicals
- GWP Global warming potential

IARC International Agency for Research on Cancer

IATA International Air Transport Association

IBC (Code) International Bulk Chemical (Code)

IMDG-code International Maritime Code for Dangerous Goods

- incl. including, inclusive
- IUCLID International Uniform Chemical Information Database

IUPACInternational Union for Pure Applied Chemistry

LC50 Lethal Concentration to 50 % of a test population

LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)

LQ Limited Quantities

MARPOL International Convention for the Prevention of Marine Pollution from Ships

n.a. not applicable

n.av. not available

n.c. not checked

n.d.a. no data available

OECD Organisation for Economic Co-operation and Development

- org. organic
- PBT persistent, bioaccumulative and toxic
- PE Polyethylene
- PNEC Predicted No Effect Concentration
- ppm parts per million
- PVC Polyvinylchloride

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)

REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.

RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)

SVHC Substances of Very High Concern

Tel. Telephone

- UN RTDG United Nations Recommendations on the Transport of Dangerous Goods
- VOC Volatile organic compounds
- vPvB very persistent and very bioaccumulative
- wwt wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.