Substance number: 1780050	61 Replaces V	/ersion: 5 / WORLD	Print date: 31.01.20
SECTION 1: Identification company/undertaking		ce/mixture and of th	<u>ne</u>
1.1. Product identifier	2		
	nl Marabu-Silk 061, 50 ml		
1.2. Relevant identified	uses of the substance	or mixture and uses ad	vised against
Use of the substance/pr Paint	reparation		
1.3. Details of the suppl	ier of the safety data s	heet	
Address/Manufacture	r	Importer -	
Marabu GmbH & Co.	KG	S&S Wholesale P	Pty. Limited
Asperger Strasse 4 71732 Tamm		18/10 Pioneer Av	/enue,
Germany		Thornleigh NSW	
Telephone no.	+49-7141/691-0	Tel: 1300 731 529	Fax: 1300 739 715
Fax no. Information provided	+49-7141/691-147 Department product safety		
by / telephone	Department product salety	Emergency Conta S&S Wholesale P	
E-mail address of	PRSI@marabu.com	Tel: 1300 731 529	-
person responsible for this SDS		101.1000701025	147.1500755715
(+49) (0)621-60-43333 <u>SECTION 2: Hazards</u> 2.1. Classification of the	identification ***		
2.1. Classification of the This product is not cla		nce with Regulation (EC) No 1	272/2008.
2.2. Label elements			
Labelling according	to regulation (EC) No	1272/2008	
EUH208 Contains		azol-3-one [EC-no. 247-500-7 ne [EC-no. 220-239-6] (3:1) / C	
Supplemental information	ation		
Contains a biocidal pr	o regulation (EU) No 528 oduct: A mixture of: 5-Chloro I-3-one [EC-no. 220-239-6] (3	-2-methyl-2h-isothiazol-3-one	[EC-no. 247-500-7] and
2.3. Other hazards No special hazards ha	ave to be mentioned.		
SECTION 3: Compos	ition/information or	ingredients ***	
3.2. Mixtures			
Chemical characteriz	ation		
Paint based on acrylic			
Hazardous ingredient			
	-		
	Page 1	(13)	
		、 /	

Safety data sheet in accordance with regulation (EC) No 1907/2006

Trade name: Marabu-Silk 061, 50 ml Marabu-Silk 061, 50 ml

Version: 6 /



Date revised: 30.01.2020 Print date: 31 01 20

17900E061 Cubat

Replaces Version: 5 / WORLD

Trade name: Marabu-Silk 06	61, 50 ml Marabu-Silk 061 Versior			Marabu
Substance number: 178005		es Version: 5	/WORLD	Date revised: 30.01.2020 Print date: 31.01.20
Bronopol (INN)				
CAS No.	52-51-7			
EINECS no.	200-143-0			
Registration no.	01-2119980938-15	. 01	0/	
Concentration	>= 0,01	< 0,1	%	
Classification (Regu	lation (EC) No. 1272/2008)			
	Eye Dam. 1	H318		
	Skin Irrit. 2	H315		
	STOT SE 3	H335		
	Acute Tox. 4	H302		
	Acute Tox. 4	H312		
	Aquatic Acute 1	H400		
	Aquatic Chronic 1	H410		
Concentration limits	(Regulation (EC) No. 1272			
	Aquatic Acute 1 H40			
	Aquatic Chronic H41	0 M = 1		
Desitte in a start	1			
Pyrithione zinc CAS No.	13463-41-7			
EINECS no.	236-671-3			
Registration no.	01-2119511196-46			
Concentration	>= 0,01	< 0,025	5 %	
Classification (Regu	lation (EC) No. 1272/2008)			
	Acute Tox. 3	H301		
	Acute Tox. 3 Eye Dam. 1	H331 H318		
	Aquatic Acute 1	H400		
	Aquatic Chronic 1	H410		
		/>		
Concentration limits	(Regulation (EC) No. 1272 Aquatic Acute 1 H40			
	Aquatic Acute 1 H40 Aquatic Chronic H41			
	1	0 11 - 10		
Pyridin-2-thiol-1-oxic	le, sodium salt			
CAS No.	3811-73-2			
EINECS no.	223-296-5			
Concentration	>= 0,001	< 0,1	%	
Classification (Regu	lation (EC) No. 1272/2008)			
Clacomodiori (regu	Eye Dam. 1	H318		
	Acute Tox. 4	H302		
	Acute Tox. 4	H332		
	Aquatic Acute 1	H400		
	Aquatic Chronic 2	H411		
Concentration limits	(Regulation (EC) No. 1272 Aquatic Acute 1 H40			
A mixture of: 5-Chlor	o-2-methyl-2h-isothiazol		247-500-71 and	d
	ol-3-one [EC-no. 220-239-			
CAS No.	55965-84-9		~ /	
Concentration		< 0,007	1 %	
	lation (EO) No. 4070/0000			
Classification (Regu	lation (EC) No. 1272/2008) Acute Tox. 2	H330		
		1000		

	ed: 30.01.2020 t date: 31.01.20
Aquatic Acute 1 H400 Skin Sens. 1A H317 Skin Corr. 1C H314 Acute Tox. 2 H310 Acute Tox. 3 H301 Concentration limits (Regulation (EC) No. 1272/2008) Skin Corr. 1C H314 Acute Tox. 3 H301 Concentration limits (Regulation (EC) No. 1272/2008) Skin Corr. 1C H314 Eye Irrit. 2 H319 0.06 < 0.6 Skin Sens. 1 H317 Aquatic Acute 1 H410 Methyl-2H-isothiazol-3-one Kessens. 1 CAS No. 2682-20-4 EINECS no. 220-239-6 Concentration Acute Tox. 3 H301 Acute Tox. 3 H301 Acute Tox. 4 H301 Acute Tox. 5 H301 Acute Tox. 2 H330 Skin Corr. 1B H314 Eye Dam. 1 H318	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
Acute Tox. 3 H301 Concentration limits (Regulation (EC) No. 1272/2008) Skin Corr. 1C H314 >= 0,6 Eye Irrit. 2 H319 <= 0,06 < 0,6	
Skin Corr. 1C H314 >= 0,6 Eye Irrit. 2 H319 <= 0,06 < 0,6	
Eye Irrit. 2 H319 $<= 0,06 < 0,6$ Skin Irrit. 2 H315 $<= 0,06 < 0,6$ Skin Sens. 1 H317 $>= 0,0015$ Aquatic Acute 1 H410 M = 100 Aquatic Chronic H410 M = 100 1 1 1 2-Methyl-2H-isothiazol-3-one CAS No. 2682-20-4 EINECS no. 220-239-6 Concentration < 0,0015	
Skin Irrit. 2 H315 $<= 0,06 < 0,6$ Skin Sens. 1 H317 $>= 0,0015$ Aquatic Acute 1 H410 M = 100 Aquatic Chronic H410 M = 100 1 1 1 2-Methyl-2H-isothiazol-3-one CAS No. 2682-20-4 EINECS no. 220-239-6 Concentration < 0,0015	
Skin Sens. 1H317 $>= 0,0015$ Aquatic Acute 1H410M = 100Aquatic ChronicH410M = 100112-Methyl-2H-isothiazol-3-oneCAS No.2682-20-4EINECS no.220-239-6Concentration< 0,0015 %	
Aquatic ChronicH410M = 10011 2-Methyl-2H-isothiazol-3-one CAS No.2682-20-4 220-239-6 ConcentrationCAS No.2682-20-4 	
1 2-Methyl-2H-isothiazol-3-one CAS No. 2682-20-4 EINECS no. 220-239-6 Concentration < 0,0015 %	
CAS No. 2682-20-4 EINECS no. 220-239-6 Concentration < 0,0015 %	
EINECS no. 220-239-6 Concentration <	
Classification (Regulation (EC) No. 1272/2008) Acute Tox. 3 H301 Acute Tox. 2 H330 Skin Corr. 1B H314 Eye Dam. 1 H318	
Acute Tox. 3H301Acute Tox. 2H330Skin Corr. 1BH314Eye Dam. 1H318	
Acute Tox. 2 H330 Skin Corr. 1B H314 Eye Dam. 1 H318	
Skin Corr. 1B H314 Eye Dam. 1 H318	
Eye Dam. 1 H318	
Aquatic Acute 1 H400	
Skin Sens. 1A H317	
Aquatic Chronic 1H410Acute Tox. 3H311	
Concentration limits (Regulation (EC) No. 1272/2008)	
Skin Sens. 1A H317 >= 0,0015 Aquatic Acute 1 H400 M = 10	
SECTION 4: First aid measures	
4.1. Description of first aid measures After skin contact	
Wash with plenty of water and soap. Do NOT use solvents or thinners.	
After eye contact	
Separate eyelids, wash the eyes thoroughly with water (15 min.). In case of irritation consult	an oculist.
After ingestion	
Rinse mouth thoroughly with water. If larger amounts are swallowed or in the event of sympt medical treatment.	oms take
4.2. Most important symptoms and effects, both acute and delayed Until now no symptoms known so far.	
4.3. Indication of any immediate medical attention and special treatment need	ed
Hints for the physician / treatment	
Treat symptomatically	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	

Safety data sheet in accordance with regulation (EC) No 1907/2006

Trade name: Marabu-Silk 061, 50 ml Marabu-Silk 061, 50 ml

Version: 6/

Date revised: 30.01.2020 Print date: 31.01.20

Substance number: 178005061

Replaces Version: 5 / WORLD

Suitable extinguishing media

Carbon dioxide, Foam, Sand, Water

5.2. Special hazards arising from the substance or mixture

In the event of fire the following can be released: Carbon monoxide (CO); Carbon dioxide (CO2); dense black smoke

5.3. Advice for firefighters

Other information

Collect contaminated fire-fighting water separately, must not be discharged into the drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures No particular measures required.

6.2. Environmental precautions

No particular measures required.

6.3. Methods and material for containment and cleaning up Clean preferably with a detergent - avoid use of solvents.

6.4. Reference to other sections

Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid skin and eye contact. Smoking, eating and drinking shall be prohibited in application area.

Advice on protection against fire and explosion

No special measures required.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels Store in frostfree conditions.

7.3. Specific end use(s)

Paint

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Other information

There are not known any further control parameters.

Derived No/Minimal Effect Levels (DNEL/DMEL)

Bronopol (INN) Type o

Type of value	Derived No Effect Level (DNEL)
Reference group	Worker
Duration of exposure	Long term
Route of exposure	inhalative
Mode of action	Systemic effects
Concentration	4,1

mg/m³

rade name: Marabu-Silk 061, 50 ml		Mara
	Version: 6 /	Date revised: 30.01.202
Substance number: 178005061	Replaces Version: 5 / WORLD	Print date: 31.01.2
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Short term	
Route of exposure	inhalative	
Mode of action Concentration	Systemic effects 12,3	mg/m³
Concentration	12,5	mg/m ^o
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	4,2	mg/m³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Short term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	4,2	mg/m³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	2,3	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Short term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	7	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Local effects	
Concentration	13	µg/cm²
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Short term	
Route of exposure	dermal	
Mode of action	Local effects	
Concentration	13	µg/cm²
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	1,2	mg/m³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	

Safety data sheet in accordance wit	h regulation (EC) No 1907/2006	
Trade name: Marabu-Silk 061, 50 ml	Marabu-Silk 061, 50 ml	\mathbb{N}
	Version: 6 /	Marabu Date revised: 30.01.2020
Substance number: 178005061	Replaces Version: 5 / WORLD	Print date: 31.01.20
Duration of exposure	Short term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	3,7	mg/m³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	1,3	mg/m³
Concentration	1,3	mg/m²
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short term	
Route of exposure	inhalative	
Mode of action	Local effects	(
Concentration	1,3	mg/m³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	1,4	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	4,2	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Local effects	
Concentration	8	µg/cm²
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short term	
Route of exposure	dermal	
Mode of action	Local effects	
Concentration	8	µg/cm²
	Dorived No Effect Level (DNEL)	
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure Mode of action	oral Systemic offects	
Concentration	Systemic effects 0,35	mg/kg/d
Transford		
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short term	
Route of exposure	oral	

rade name: Marabu-Silk 061, 50 r	nl Marabu-Silk 061, 50 ml	
,	Version: 6 /	Date revised: 30.01.2020
Substance number: 178005061	Replaces Version: 5 / WORLI	
Mode of action	Systemic effects	
Concentration	1,1	mg/kg/d
Predicted No Effect Conce	entration (PNEC)	
Bronopol (INN)		
Type of value	PNEC	
Туре	Freshwater	
Concentration	0,01	mg/l
Type of value	PNEC	
Туре	Saltwater	
Concentration	0,001	mg/l
Type of value	PNEC	
Туре	Water (intermittent release)	
Concentration	0,003	mg/l
Type of value	PNEC	
Туре	Sewage treatment plant (STP)	
Concentration	0,43	mg/l
Type of value	PNEC	
Туре	Freshwater sediment	
Concentration	0,041	mg/kg
Type of value	PNEC	
Туре	Marine sediment	
Concentration	0,003	mg/kg
Type of value	PNEC	
Туре	Soil	
Concentration	0,5	mg/kg
8.2. Exposure controls		
Exposure controls		
Provide adequate ventilatio	n.	
	d ab amical mean artica	
ECTION 9: Physical and		
9.1. Information on basic pr Form	iysical and chemical properties	
Colour	coloured	
Odour	odourless	
Odour threshold		
Remarks	No data available	
pH value		
Value	8 to 10	
Temperature	8 to 10 20 °C	
Method	WTW PH 340	
Melting point		
Remarks	not determined	
Freezing point		
Remarks	not determined	

rade name: Marabu-Silk 061, 50 ml	Marabu-Silk 061, 50 Version: 6			Marab Date revised: 30.01.2020
Substance number: 178005061	Replaces V	ersion:	5 / WORLD	Print date: 31.01.20
Initial boiling point and boilir	ng range			
Value	appr. 100		°C	
Pressure	1.013	hPa		
Source	Literature value			
Flash point				
Remarks	Not applicable			
Evaporation rate (ether = 1) :				
Remarks	not determined			
Flammability (solid, gas)				
Not applicable				
Upper/lower flammability or o	explosive limits			
Remarks	not determined			
Vapour pressure				
Value	appr. 23		hPa	
Temperature	20	°C	in a	
Method	Value taken from	the litera	ature	
Vapour density				
Remarks	not determined			
Density				
Value	1 020		a/2m3	
Temperature	1,020 20	°C	g/cm³	
Method	DIN EN ISO 2811			
Solubility in water				
Remarks	miscible			
	THISCIDIE			
Ignition temperature				
Remarks	not determined			
Viscosity				
Remarks				
Remarks	not determined			
9.2. Other information				
Other information				
None known				
ECTION 10: Stability and	<u>reactivity</u>			
10.1. Reactivity None				
10.2. Chemical stability No hazardous reactions knowr	I.			
10.3. Possibility of hazardous No hazardous reactions known				
10.4. Conditions to avoid No hazardous reactions knowr	ı.			
10.5. Incompatible materials None				
10.6. Hazardous decompositio No hazardous decomposition p				

ubstance number: 178005061			
ubstance number: 178005061	Version: 6 /		Date revised: 30.01.20
	Replaces Ver	sion: 5 / WORLD	Print date: 31.01.
ECTION 11: Toxicologic	al information		
1.1. Information on toxicolo	gical effects		
Acute oral toxicity			
Remarks	Based on available dat	a, the classification crite	eria are not met.
Acute oral toxicity (Compo	nents)		
Pyrithione zinc			
Species	Rats (male/female)	···· • // · •·	
LD50 Method	269 OECD 401	mg/kg	
Acute dermal toxicity Remarks	Bacad on available dat	a the classification crite	ria are not mot
	Based on available dat		are not met.
Acute inhalational toxicity	Deced on evelleble det	a the eleccification orite	via are not mot
Remarks	Based on available dat	a, the classification crite	ana are not met.
Acute inhalative toxicity (C	omponents)		
Pyrithione zinc			
Species LC50	rat 0,84	mg/l	
Administration/Form	Dust/Mist	iiig/i	
Method	OECD 403		
Skin corrosion/irritation			
Remarks	Based on available dat	a, the classification crite	eria are not met.
Serious eye damage/irritat	ion		
Remarks	Based on available dat	a, the classification crite	eria are not met.
Sensitization			
Remarks	Based on available dat	a, the classification crite	eria are not met.
Mutagenicity			
Remarks	Based on available dat	a, the classification crite	eria are not met.
Reproductive toxicity			
Remarks	Based on available dat	a, the classification crite	eria are not met.
Carcinogenicity		,	
Remarks	Based on available dat	a, the classification crite	eria are not met.
Specific Target Organ Toxi		,	
Single exposure			
Remarks	Based on available dat	a, the classification crite	eria are not met.
Repeated exposure Remarks	Based on available dat		
Aspiration hazard		-,	
Based on available data, the	classification criteria are	not met	
Experience in practice			
Provided all the recommend risk to health can be expected		precautions are taken, e	experience shows that no
Other information			
There are no data available	on the mixture itself		

Safety data sheet in accordance with regulation (EC) No 1907/2006 Trade name: Marabu-Silk 061, 50 ml Marabu-Silk 061, 50 ml Version: 6 / Date revised: 30.01.2020 Substance number: 178005061 Replaces Version: 5 / WORLD Print date: 31.01.20 SECTION 12: Ecological information 12.1. Toxicity

General information

There are no data available on the mixture itself.Do not allow to enter drains or water courses.The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is not classified as dangerous for the environment.

Fish toxicity (Components)

Pyrithione zincSpeciesrainbow trout (Oncorhynchus mykiss)LC500,14mg/lDuration of exposure96hBronopol (INN)3mg/lSpeciesrainbow trout (Oncorhynchus mykiss)LC503mg/lDuration of exposure96hMethodOECD 203Bronopol (INN)Speciesrainbow trout (Oncorhynchus mykiss)NOEC2,61mg/lDuration of exposure28dMethodOECD 203A mixture of: 5-Chloro-2-methyl-2h-isothiazol-3-one [EC-no. 247-500-7] and2-Methyl-2H-isothiazol-3-one [EC-no. 247-500-7] andDuration of exposure96Daphnia toxicity (Components)Pyrithione zincSpeciesDaphnia magnaEC501,04MethodOECD 202Bronopol (INN)SpeciesDaphnia magnaNOEC0,06MethodOECD 211A mixture of: 5-Chloro-2-methyl-2h-isothiazol-3-one [EC-no. 247-500-7] and2-Methyl-2h-isothiazol-3-one [EC-no. 247-500-7] and2-Methyl-2h-isothiazol-3-one [EC-no. 247-500-7] and2-Methyl-2h-isothiazol-3-one [EC-no. 247-500-7] and2-Methyl-2	·····, (·····,			
LC50 0,14 mg/l Duration of exposure 96 h Bronopol (INN) Species rainbow trout (Oncorhynchus mykiss) LC50 3 mg/l Duration of exposure 96 h Method OECD 203 Bronopol (INN) Species rainbow trout (Oncorhynchus mykiss) NOEC 2,61 mg/l Duration of exposure 28 d Method OECD 203 A mixture of: 5-Chloro-2-methyl-2h-isothiazol-3-one [EC-no. 247-500-7] and 2.Methyl-2H-isothiazol-3-one [EC-no. 247-500-7] and 2.Methyl-2H-isothiazol-3-one [EC-no. 247-500-7] and 2.Methyl-2H-isothiazol-3-one [EC-no. 247-500-7] and 2.Methyl-2H-isothiazol-3-one [EC-no. 247-500-7] and Duration of exposure 96 h Duration of exposure 96 h Daphnia toxicity (Components) mg/l mg/l Pyrithione zinc Species Daphnia magna EC50 0,05 mg/l Duration of exposure 48 h Method OECD 202 Bronopol (INN) Species Daphnia magna NOEC 0,06 <	-			
Duration of exposure 96 h Bronopol (INN) species rainbow trout (Oncorhynchus mykiss) LC50 3 mg/l Duration of exposure 96 h Method OECD 203 mg/l Bronopol (INN) Species rainbow trout (Oncorhynchus mykiss) NOEC 2.61 mg/l Duration of exposure 28 d Method OECD 203 Mag/l A mixture of: 5-Chloro-2-methyl-2h-isothiazol-3-one [EC-no. 247-500-7] and 2-Methyl-2H-isothiazol-3-one [EC-no. 247-500-7] and 2-Methyl-2H-isothiazol-3-one [EC-no. 220-239-6] (3:1) / C(M)IT/MIT (3:1) species rainbow trout (Oncorhynchus mykiss) LC50 0,188 mg/l mg/l Duration of exposure 96 h Daphnia toxicity (Components) Pyrithione zinc mg/l Species Daphnia magna EC50 mg/l EC50 0,05 mg/l Duration of exposure 48 h Method OECD 202 mg/l Bronopol (INN) Species Daphnia magna Species Daphnia magna	•	•	ncorhynchus mykiss	•
Bronopol (INN) Species rainbow trout (Oncorhynchus mykiss) LC50 3 mg/l Duration of exposure 96 h Method OECD 203 Bronopol (INN) Species rainbow trout (Oncorhynchus mykiss) mg/l NOEC 2,61 mg/l Duration of exposure 28 d Method OECD 203 A A mixture of: 5-Chloro-2-methyl-2h-isothiazol-3-one [EC-no. 247-500-7] and 2-Methyl-2H-isothiazol-3-one [EC-no. 247-500-7] and 2-Methyl-2H-isothiazol-3-one [EC-no. 220-239-6] (3:1) / C(M)IT/MIT (3:1) Species Species rainbow trout (Oncorhynchus mykiss) LC50 0,188 mg/l Duration of exposure 96 h Daphnia toxicity (Components) Pyrithione zinc species Species Daphnia magna EC50 ng/l Duration of exposure 48 h mg/l Duration of exposure 21 d mg/l Duration of exposure 21 d mg/l Duration of exposure 21 d mg/l Duration of exposure				mg/l
Species rainbow trout (Oncorhynchus mykiss) LC50 3 mg/l Duration of exposure 96 h Method OECD 203 Bronopol (INN) Species rainbow trout (Oncorhynchus mykiss) NOEC NOEC 2,61 mg/l Duration of exposure 28 d Method OECD 203 A mixture of: 5-Chloro-2-methyl-2h-isothiazol-3-one [EC-no. 247-500-7] and 2-Methyl-2H-isothiazol-3-one [EC-no. 220-239-6] (3:1) / C(M)IT/MIT (3:1) Species Species rainbow trout (Oncorhynchus mykiss) LC50 0,188 mg/l Duration of exposure 96 h Daphnia toxicity (Components) Pyrithione zinc Species Daphnia magna EC50 EC50 0,05 mg/l Duration of exposure 48 h Bronopol (INN) Species Daphnia magna EC50 1,04 mg/l Duration of exposure 48 h Method OECD 202 Bronopol (INN) Species Daphnia magna Method NOEC <t< td=""><td>Duration of exposure</td><td>96</td><td>h</td><td></td></t<>	Duration of exposure	96	h	
LC50 3 mg/l Duration of exposure 96 h Method OECD 203 Bronopol (INN) Species rainbow trout (Oncorhynchus mykiss) NOEC 2,61 mg/l Duration of exposure 28 d Method OECD 203 A mixture of: 5-Chloro-2-methyl-2h-isothiazol-3-one [EC-no. 247-500-7] and 2-Methyl-2H-isothiazol-3-one [EC-no. 220-239-6] (3:1) / C(M)IT/MIT (3:1) Species rainbow trout (Oncorhynchus mykiss) LC50 0,188 mg/l Duration of exposure 96 h Daphnia toxicity (Components) Pyrithione zinc Species Daphnia magna EC50 0,05 mg/l Duration of exposure 48 h Bronopol (INN) Species Daphnia magna EC50 1,04 mg/l Duration of exposure 48 h Method OECD 202 Bronopol (INN) Species Daphnia magna NOEC 0,06 mg/l Duration of exposure 48 h Method OECD 202 Bronopol (INN) Species Daphnia magna NOEC 0,06 mg/l Duration of exposure 21 d Method OECD 211 A mixture of: 5-Chloro-2-methyl-2h-isothiazol-3-one [EC-no. 247-500-7] and 2-Methyl-2H-isothiazol-3-one	Bronopol (INN)			
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2-Methyl-2H-isothiazol-3-one [EC-no. 220-239-6] (3:1) / C(M)IT/MIT (3:1) Species Daphnia magna EC50 0,126 mg/l Duration of exposure 48 h Algae toxicity (Components) Pyrithione zinc Species Selenastrum capricornutum IC50 0,067 mg/l				
Species Daphnia magna EC50 0,126 mg/l Duration of exposure 48 h Algae toxicity (Components) Pyrithione zinc Species Selenastrum capricornutum IC50 0,067 mg/l				
EC50 0,126 mg/l Duration of exposure 48 h Algae toxicity (Components) Fyrithione zinc Verticity (Components) Species Selenastrum capricornutum No.067 IC50 0,067 mg/l				11 (3.1)
Duration of exposure 48 h Algae toxicity (Components) Pyrithione zinc Species Selenastrum capricornutum IC50 0,067 mg/l				···· ~ //
Algae toxicity (Components) Pyrithione zinc Species IC50 Selenastrum capricornutum mg/l			L.	mg/i
Pyrithione zinc Species Selenastrum capricornutum IC50 0,067 mg/l	•		n	
SpeciesSelenastrum capricornutumIC500,067mg/l	Algae toxicity (Components	s)		
SpeciesSelenastrum capricornutumIC500,067mg/l	Pyrithione zinc			
IC50 0,067 mg/l		Selenastrum car	pricornutum	
, O				mg/l
•			h	0
	•			

Safety data sheet in accordance w			
Trade name: Marabu-Silk 061, 50 m		nl	Marabu
	Version: 6 /		Date revised: 30.01.2020
Substance number: 178005061	Replaces Ve	rsion: 5 / WORLD	Print date: 31.01.20
Bronopol (INN)			
Species	Pseudokirchneriella su	•	
EC50	0,068	mg/l	
Duration of exposure Method	72 h OECD 201		
Bronopol (INN)	0200201		
Species	Pseudokirchneriella su	bcapitata	
NOEC	0,0025	. mg/l	
Duration of exposure	72 h		
Method	OECD 201		
A mixture of: 5-Chloro-2-me 2-Methyl-2H-isothiazol-3-one			
Species	Selenastrum capricorn		
EC50	0,027	mg/l	
Duration of exposure	72 h		
12.2. Persistence and degrad	dability		
General information			
There are no data available	on the mixture itself.		
12.3. Bioaccumulative poten	tial		
General information			
There are no data available	on the mixture itself		
12.4. Mobility in soil			
General information			
There are no data available	on the mixture itself.		
12.5. Results of PBT and vPv	B assessment		
General information			
There are no data available	on the mixture itself.		
12.6. Other adverse effects			
General information			
There are no data available	on the mixture itself.		
SECTION 13: Disposal co	onsiderations		
13.1. Waste treatment metho	ds		
Disposal recommendation	s for the product		
The product can be placed w with water and put into the d		se. Small residues in cont	ainers can be washed-out
Disposal recommendation	s for packaging		
Packaging that cannot be clo Completely emptied package	eaned should be dispose		
SECTION 14: Transport ir	nformation		

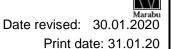
SECTION 14: Transport information

Safety data sheet in accordance with regulation (EC) No 1907/2006

rada nama:	Marabu-Silk 061, 50 ml	Marabu Silk 061	50 ml
rade name.	Marabu-Silk 061, 50 mi	Warabu-Silk UGI,	50 mi

Version: 6 /

Replaces Version: 5 / WORLD



Substance number: 178005061

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1. UN number	The product does not constitute a hazardous substance in land transport	The product does not constitute a hazardous substance in sea transport	The product does not constitute a hazardous substance in air transport
14.2. UN proper shipping name	-	-	-
14.3. Transport hazard class(es)	-	-	-
Subsidiary risk		-	-
Label			
14.4. Packing group	-	-	-
Transport category	0		
14.5. Environmental hazards		no	
	-		-

Information for all modes of transport

14.6. Special precautions for user

Transport within the user's premises:

Always transport in closed containers that are upright and secure.

Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Other information

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

no

SECTION 15: Regulatory information

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

Other information

The product does not contain substances of very high concern (SVHC).

Other information

All components are contained in the ECL inventory.

All components are contained in the DSL or NDSL inventory.

15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

SECTION 16: Other information

Hazard statements listed in Chapter 3

H301	Toxic if swallowed.	
H302	Harmful if swallowed.	
H310	Fatal in contact with skin.	
H311	Toxic in contact with skin.	
H312	Harmful in contact with skin.	

Trade name: Marabu-Silk 061, 50 ml Marabu-Silk 061, 50 ml						
Substance number: 178005061	Version: 6 / Replaces Version: 5 / WORLD	Date revised: Print da	30.01.202 ate: 31.01.2			
H314	Causes severe skin burns and eye damage.					
H315	Causes skin irritation.					
H317	May cause an allergic skin reaction.					
H318	Causes serious eye damage.					
H330	Fatal if inhaled.					
H331	Toxic if inhaled.					
H332	Harmful if inhaled.					
H335	May cause respiratory irritation.					
H400	Very toxic to aquatic life.					
H410	Very toxic to aquatic life with long lasting effects.					
H411	Toxic to aquatic life with long lasting effects.					
CLP categories listed in C	Chapter 3					
Acute Tox. 2	Acute toxicity, Category 2					
Acute Tox. 3	Acute toxicity, Category 3					
Acute Tox. 4	Acute toxicity, Category 4					
Aquatic Acute 1	Hazardous to the aquatic environment, acute, Cat	egory 1				
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic, C					
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic, C	ategory 2				
Eye Dam. 1	Serious eye damage, Category 1					
Skin Corr. 1B	Skin corrosion, Category 1B					
Skin Corr. 1C	Skin corrosion, Category 1C					
Skin Irrit. 2	Skin irritation, Category 2					
Skin Sens. 1A	Skin sensitization, Category 1A					
STOT SE 3	Specific target organ toxicity - single exposure, Ca					

Relevant changes compared with the previous version of the safety data sheet are marked with: *** This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship. The information in this Safety Data Sheet is based on the present state of knowledge and current legislation.

It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions.

As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.