Safety data sheet in acco	rdance with regula	ation (EC) No 190	07/2006	
Trade name: Marabu Art S	spray 031, 50 ml			Marabu
Substance number: 12090	05031	Version: 6 / Replaces Versi	on: 5/WORLD	Date revised: 29.01.2020 Print date: 29.01.20
SECTION 1: Identif		substance	<u>/mixture and of</u>	<u>f the</u>
company/undertak				
1.1. Product identifie Marabu Art Spray				
1.2. Relevant identifie	ed uses of the s	substance or r	mixture and uses	advised against
Use of the substance Spray paint Identified Uses	/preparation			
SU21 PC9a		es: Private househ paints, thinners, p	nolds (= general public paint removers	c = consumers)
1.3. Details of the sup	oplier of the saf	ety data shee	t	
Address/Manufact Marabu GmbH & C Asperger Strasse 4 71732 Tamm Germany Telephone no. Fax no. Information provide by / telephone E-mail address of person responsible for this SDS	Co. KG 4 +49-7141/691- +49-7141/691- ed Department pro PRSI@marabu	-147 oduct safety	Importer - S&S Wholesale Pty. 18/10 Pioneer Avenu Thornleigh NSW 21 Tel: 1300 731 529 Emergency Contact: S&S Wholesale Pty. Tel: 1300 731 529	ue, 20 Fax: 1300 739 715 Limited
1.4. Emergency telep (+49) (0)621-60-43	3333			
SECTION 2: Hazard				
2.1. Classification of This product is not			with Regulation (EC) I	No 1272/2008.
2.2. Label elements				
Labelling accord	ing to regulatio	n (EC) No 127	/2/2008	
EUH208 Contains ***	5-Chloro-2-me 2-Methyl-2H-is 1,2-Benzisothia	othiazol-3-one [E	n mixture of: -3-one [EC-no. 247-5(:C-no. 220-239-6] (3:1 May produce an allergi) / C(M)IT/MIT (3:1),
Supplemental info				
	• • •	of: 5-Chloro-2-m	ethyl-2h-isothiazol-3-o	one [EC-no. 247-500-7] and
2.3. Other hazards No special hazards	s have to be mentior	ned.		

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SECTION 3: Composition/information on ingredients ***

3.2. Mixtures

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Chemical characterization

	e name: Marabu Art Spr		0.4		
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	stance number: 120905			ORLD	Date revised: 29.01.202 Print date: 29.01.2
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	Spray paint based or	acrylic resins and on wa	ater		
$\begin{array}{llllllllllllllllllllllllllllllllllll$		-			
$\begin{array}{llllllllllllllllllllllllllllllllllll$	•				
Registration no. 01-2119980938-15 Concentration >= 0,01 Classification (Regulation (EC) No. 1272/2008) Eye Dam.1 H318 Skin Irrit. 2 H315 STOT SE 3 H335 Acute Tox. 4 H302 Acute Tox. 4 H302 Acute Tox. 4 H302 Acute Tox. 4 H302 Acute Tox. 4 H312 Aquatic Acute 1 H400 Concentration limits (Regulation (EC) No. 1272/2008) Aquatic Acute 1 H400 M = 10 Aquatic Acute 1 H400 Aquatic Acute 1 H400 M = 10 Aquatic Acute 1 H400 M = 10 1 1 T Pyrithione zinc Cass No. 13463-41-7 EINECS no. 236-671-3 Registration no. 01-2119511196-46 Concentration No. 1272/2008) Aquatic Acute 1 H400 Acute Tox. 3 H331 Eye Dam.1 H318 Aquatic Acute 1 H400 Aquatic Acute 1 H400 M = 10 1 1 1 12-Benzisothiazol-3(2h)-one Concentration Zool Toxo. 220-120-9 % Cassification (Regulation (EC) No. 1272/2008) 0,05 % Classification (Regulation (EC) No. 1272/2008) Aquatic Acute 1 H400 M = 1		52-51-7			
$\begin{tabular}{l l l l l l l l l l l l l l l l l l l $					
$\begin{array}{c c} \mbox{Classification (Regulation (EC) No. 1272/2008)} \\ Eye Dam. 1 & H318 \\ Skin Irrit. 2 & H315 \\ STOT SE 3 & H335 \\ Acute Tox. 4 & H302 \\ Acute Tox. 4 & H312 \\ Aquatic Acute 1 & H400 \\ Aquatic Chronic 1 & H410 \\ Aquatic Chronic 1 & H410 \\ M = 10 \\ Aquatic Chronic H410 & M = 10 \\ 1 \\ \hline \end{tabular}$			<u> </u>	0/	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Concentration	>= 0,01	< 0,1	%	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Classification (Regula	ation (EC) No. 1272/2008	3)		
$ \begin{array}{ccccc} Skin Irrit. 2 & H315 \\ STOT SE 3 & H335 \\ Acute Tox. 4 & H302 \\ Acute Tox. 4 & H312 \\ Aquatic Acute 1 & H400 \\ Aquatic Chronic 1 & H410 \\ \end{array} \\ \hline \\ \begin{array}{c} Concentration limits (Regulation (EC) No. 1272/2008) \\ Aquatic Chronic H410 & M = 1 \\ 1 \\ \end{array} \\ \hline \\ \begin{array}{c} Pyrithione zinc \\ CAS No. & 13463-41-7 \\ EINECS no. & 236-671-3 \\ Registration no. & 01-2119511196-46 \\ Concentration & >= 0,01 < 0,025 % \\ \hline \\ Classification (Regulation (EC) No. 1272/2008) \\ Acute Tox. 3 & H301 \\ Acute Tox. 3 & H331 \\ Eye Dam. 1 & H318 \\ Aquatic Chronic 1 & H410 \\ \hline \\ \begin{array}{c} Concentration limits (Regulation (EC) No. 1272/2008) \\ Aquatic Chronic 1 & H410 \\ \hline \\ Aquatic Chronic 1 & H410 \\ \hline \\ \end{array} \\ \hline \\ \begin{array}{c} Concentration limits (Regulation (EC) No. 1272/2008) \\ Aquatic Chronic 1 & H410 \\ \hline \\ Aquatic Chronic H410 & M = 10 \\ 1 \\ \hline \\ \begin{array}{c} 1 \\ 1 \\ 2.8 \\ Cassification (Regulation (EC) No. 1272/2008) \\ Aquatic Chronic H410 & M = 10 \\ 1 \\ \hline \\ \begin{array}{c} 1 \\ Aquatic Chronic H410 \\ Aquatic Chronic H410 \\ \hline \\ \end{array} \\ \hline \\ \begin{array}{c} Concentration limits (Regulation (EC) No. 1272/2008) \\ Aquatic Chronic H410 \\ Aquatic Chronic H410 \\ \hline \\ \begin{array}{c} 1 \\ 1 \\ \hline \\ \begin{array}{c} 2.8 \\ Classification (Regulation (EC) No. 1272/2008) \\ Aquatic Chronic H410 \\ Aquatic Chronic H410 \\ \hline \\ \begin{array}{c} 1 \\ 1 \\ \hline \\ \begin{array}{c} 1 \\ 1 \\ \hline \\ \begin{array}{c} 2.8 \\ Classification (Regulation (EC) No. 1272/2008) \\ Aquatic Chronic H410 \\ Aquatic Chronic H410 \\ \hline \\ \begin{array}{c} 1 \\ 1 \\ 1 \\ \hline \\ \begin{array}{c} 2.8 \\ Classification (Regulation (EC) No. 1272/2008) \\ Aquatic Chronic H410 \\ Skin Sens. 1 \\ \hline \\ \begin{array}{c} 3.1 \\ H317 \\ Acute Tox. 4 \\ H302 \\ Skin Irrit. 2 \\ H315 \\ Eye Dam. 1 \\ H318 \\ Acute Tox. 2 \\ H330 \\ Aquatic Chronic 2 \\ H411 \\ \end{array} \\ \end{array} $	elacementation (regul				
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$\begin{array}{c} \mbox{Aquatic Acute 1} & \mbox{H}400 & \mbox{M} = 10 \\ \mbox{Aquatic Chronic} & \mbox{H}410 & \mbox{M} = 1 \\ 1 \\ \mbox{Pyrithione zinc} \\ \mbox{CAS No.} & 13463-41-7 \\ \mbox{ElNECS no.} & 236-671-3 \\ \mbox{Registration no.} & 01-2119511196-46 \\ \mbox{Concentration} & \mbox{on } = 0,01 < 0,025 \% \\ \mbox{Classification (Regulation (EC) No. 1272/2008)} \\ \mbox{Acute Tox. 3} & \mbox{H}301 \\ \mbox{Acute Tox. 4} & \mbox{H}410 \\ \mbox{Concentration limits (Regulation (EC) No. 1272/2008)} \\ \mbox{Aquatic Acute 1} & \mbox{H}400 \\ \mbox{Aquatic Chronic} & \mbox{H}410 \\ \mbox{M} = 100 \\ \mbox{Aquatic Chronic} & \mbox{H}410 \\ \mbox{M} = 10 \\ \mbox{I} \\ \mbox{I} \\ \mbox{Aquatic Chronic} & \mbox{H}410 \\ \mbox{M} = 10 \\ \mbox{I} \\ \mbox{I} \\ \mbox{Aquatic Chronic} & \mbox{H}410 \\ \mbox{M} = 10 \\ \mbox{I} \\ \mbox{I} \\ \mbox{Aquatic Acute 1} $		Aquatic Chronic 1	H410		
$\begin{array}{cccc} CAS No. & 13463-41-7 \\ EINECS no. & 236-671-3 \\ Registration no. & 01-2119511196-46 \\ Concentration & >= & 0,01 < & 0,025 % \\ \hline \\ Classification (Regulation (EC) No. 1272/2008) \\ Acute Tox. 3 & H301 \\ Acute Tox. 3 & H331 \\ Eye Dam. 1 & H318 \\ Aquatic Acute 1 & H400 \\ Aquatic Chronic 1 & H410 \\ \hline \\ Concentration limits (Regulation (EC) No. 1272/2008) \\ Aquatic Acute 1 & H400 \\ Aquatic Chronic H410 \\ M = 100 \\ 1 \\ \hline \\ 1 \\ \hline \\ \begin{array}{c} 1 \\ 1 \\ \hline \\ 1 \\ \hline \\ \hline \\ Concentration (Regulation (EC) No. 1272/2008) \\ Aquatic Chronic H410 \\ 1 \\ \hline \\ \hline \\ \hline \\ \hline \\ Concentration limits (Regulation (EC) No. 1272/2008) \\ Aquatic Chronic H410 \\ \hline \\ $	Concentration limits (Aquatic Acute 1 H4 Aquatic Chronic H4	00 M = 10		
$\begin{array}{cccc} CAS No. & 13463-41-7 \\ EINECS no. & 236-671-3 \\ Registration no. & 01-2119511196-46 \\ Concentration & >= & 0,01 < & 0,025 % \\ \hline \\ Classification (Regulation (EC) No. 1272/2008) \\ Acute Tox. 3 & H301 \\ Acute Tox. 3 & H331 \\ Eye Dam. 1 & H318 \\ Aquatic Acute 1 & H400 \\ Aquatic Chronic 1 & H410 \\ \hline \\ Concentration limits (Regulation (EC) No. 1272/2008) \\ Aquatic Acute 1 & H400 \\ Aquatic Chronic H410 \\ M = 100 \\ 1 \\ \hline \\ 1 \\ \hline \\ \begin{array}{c} 1 \\ 1 \\ \hline \\ 1 \\ \hline \\ \hline \\ Concentration (Regulation (EC) No. 1272/2008) \\ Aquatic Chronic H410 \\ 1 \\ \hline \\ \hline \\ \hline \\ \hline \\ Concentration limits (Regulation (EC) No. 1272/2008) \\ Aquatic Chronic H410 \\ \hline \\ $	Pvrithione zinc				
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$\begin{array}{llllllllllllllllllllllllllllllllllll$					
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Acute Tox. 3H301Acute Tox. 3H331Eye Dam. 1H318Aquatic Acute 1H400Aquatic Chronic 1H410Concentration limits (Regulation (EC) No. 1272/2008)Aquatic Acute 1H400Aquatic Acute 1H400Maquatic Chronic 1H41011 1,2-Benzisothiazol-3(2h)-one CAS No.2634-33-5EINECS no.220-120-9Concentration< 0,05 %		>= 0,01	< 0,025	%	
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Aquatic ChronicH410 $M = 10$ 11 1,2-Benzisothiazol-3(2h)-one CAS No.CAS No.2634-33-5EINECS no.220-120-9Concentration< 0,05 %	Concentration limits (
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EINECS no. Concentration220-120-9Concentration<		-			
Concentration<0,05%Classification (Regulation (EC) No. 1272/2008)Aquatic Acute 1H400Skin Sens. 1H317Acute Tox. 4H302Skin Irrit. 2H315Eye Dam. 1H318Acute Tox. 2H330Aquatic Chronic 2H411					
Classification (Regulation (EC) No. 1272/2008) Aquatic Acute 1 H400 Skin Sens. 1 H317 Acute Tox. 4 H302 Skin Irrit. 2 H315 Eye Dam. 1 H318 Acute Tox. 2 H330 Aquatic Chronic 2 H411		220-120-3	< 0.05	%	
Aquatic Acute 1H400Skin Sens. 1H317Acute Tox. 4H302Skin Irrit. 2H315Eye Dam. 1H318Acute Tox. 2H330Aquatic Chronic 2H411	Concontration		\$ 0,00	70	
Skin Sens. 1H317Acute Tox. 4H302Skin Irrit. 2H315Eye Dam. 1H318Acute Tox. 2H330Aquatic Chronic 2H411	Classification (Regula	ation (EC) No. 1272/2008	3)		
Acute Tox. 4H302Skin Irrit. 2H315Eye Dam. 1H318Acute Tox. 2H330Aquatic Chronic 2H411					
Skin Irrit. 2H315Eye Dam. 1H318Acute Tox. 2H330Aquatic Chronic 2H411					
Eye Dam. 1H318Acute Tox. 2H330Aquatic Chronic 2H411					
Acute Tox. 2 H330 Aquatic Chronic 2 H411					
Aquatic Chronic 2 H411					
Concentration limits (Regulation (EC) No. 1272/2008)		Aquatic Chronic 2	H411		
Skin Sens. 1 H317 >= 0,05	Concentration limits (
2-Methyl-2H-isothiazol-3-one	2-Methvl-2H-isothiazo				

ade name: Marabu Art Spi	ay 031, 50 ml					Mar
ubstance number: 120905	031	Version: Replaces		n: 5/WO	RLD	Date revised: 29.01.202 Print date: 29.01.2
EINECS no.	220-239-6					
Concentration			<	0,0015	%	
Classification (Regul	ation (EC) No. 127	2/2008)				
	Acute Tox. 3		H301			
	Acute Tox. 2		H330			
	Skin Corr. 1B		H314			
	Eye Dam. 1		H318			
	Aquatic Acute 1		H400			
	Skin Sens. 1A		H317			
	Aquatic Chronic	1	H410			
	Acute Tox. 3		H311			
Concentration limits	(Regulation (EC) N	lo 1272/2	2008)			
	Skin Sens. 1A	H317		,0015		
	Aquatic Acute 1	H400	≥= 0 M =			
A mixture of: 5-Chlor 2-Methyl-2H-isothiaz	ol-3-one [EC-no. 2					
CAS No. Concentration	55965-84-9		<	0,001	%	
Classification (Regul	ation (EC) No. 127	2/2008)				
Classification (Regul	Acute Tox. 2	2/2000)	H330			
	Aquatic Chronic	1	H410			
	Aquatic Chronic Aquatic Acute 1	I	H410 H400			
	Skin Sens. 1A					
			H317			
	Skin Corr. 1C Acute Tox. 2		H314			
	Acute Tox. 2 Acute Tox. 3		H310 H301			
Concentration limits	(Regulation (EC) N	lo 1272/2	2008)			
Concentration limits	Skin Corr. 1C	H314	,	6		
	Eye Irrit. 2	H319		,06 < 0,6		
	Skin Irrit. 2	H315		,06 < 0,6		
	Skin Sens. 1	H317		,0015		
	Aquatic Acute 1					
	Aquatic Chronic		M =			
	1					
ECTION 4: First aid	l measures					
1. Description of first						
•						
After skin contact						
Wash with plenty of	water and soap. Do	NOT us	e solven	ts or thinne	ers.	
After eye contact						
•	ish the eves thorou	ahly with	water (1	5 min) In	case of irrit	ation consult an oculist.
		Sun And		5		
After ingestion						
Rinse mouth thoroug medical treatment.	hly with water. If la	arger amo	unts are	swallowed	d or in the ev	vent of symptoms take

Treat symptomatically

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

Trade name: Marabu Art Spray 031, 50 ml

Version: 6 /

Date revised: 29.01.2020 Print date: 29.01.20

Substance number: 120905031

Replaces Version: 5 / WORLD

SECTION 5: Firefighting measures

5.1. Extinguishing media

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; Hydrogen chloride (HCI)

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

Derived No/Minimal Effect Levels (DNEL/DMEL)

Bronopol (INN)

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

Frade name: Marabu Art Spray 031,	50 ml	
	Marabu Date revised: 29.01.2020	
Substance number: 120905031	Replaces Version: 5 / WORLD	Print date: 29.01.20
Turne of velue	Dorived No Effect Level (DNEL)	
Type of value Reference group	Derived No Effect Level (DNEL) Worker	
Duration of exposure	Short term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	12,3	mg/m³
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 Mode of action	dermal	
Concentration	Local effects 13	µg/cm²
Concentration	15	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 Concentration	Local effects 13	µg/cm²
		<u>ل کار کار او ما</u>
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	mg/m3
Concentration	1,2	mg/m³
Type of value	Derived No Effect Level (DNEL)	

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

Trade name: Marabu Art Spray 031, 50 ml

Trade name: Marabu Art Spray 031, 5	50 ml Version: 6 /	Marabu Date revised: 29.01.2020
Substance number: 120905031	Replaces Version: 5 / WORLD	Print date: 29.01.20
Reference group	Consumer	
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 Route of exposure	Long term 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	Short term	
Route of exposure Mode of action	inhalative Local effects	
Concentration	1,3	mg/m³
Concentration	1,0	iiig/iii
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	malkald
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	malkald
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
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	ma/ka/d
Concentration	0,35	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short term	

Safety data sheet in accordance with	regulation (EC) No 1907/2006	
Trade name: Marabu Art Spray 031, 50		Marabu
	Version: 6 /	Date revised: 29.01.2020
Substance number: 120905031	Replaces Version: 5 / WORLD	Print date: 29.01.20
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	1,1	mg/kg/d
Predicted No Effect Concentr	ation (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 ventilation.		
SECTION 9: Physical and c	hemical properties	
9.1. Information on basic physi Form	liquid	
Colour	coloured	
Odour	odourless	
Odour threshold		
Remarks	No data available	
pH value		
Value	7 to 9	
Temperature	20 °C	
Method	WTW PH 340	
Melting point		
Remarks	not determined	
Freezing point		

rade name: Marabu Art Spray 031, 50	ml				Marah
		Version:	6 /		Date revised: 29.01.2020
Substance number: 120905031		Replaces	Version:	5 / WORLD	Print date: 29.01.20
Remarks	not de	termined			
Initial boiling point and boilin	g range	e			
Value	appr.	100		°C	
Pressure		1.013	hPa		
Source	Literat	ure value			
Flash point					
Remarks	Not ap	plicable			
Evaporation rate (ether = 1) :					
Remarks	not de	termined			
Flammability (solid, gas) Not applicable					
Upper/lower flammability or e	xplosiv	ve limits			
Remarks	-	termined			
Vapour pressure					
Value	appr.	23		hPa	
Temperature		20	°C		
Method	Value	taken from	n the litera	ature	
Vapour density					
Remarks	not de	termined			
Density					
Value		1		g/cm³	
Temperature Method	DIN FI	20 N ISO 281	°C 1		
Solubility in water			•		
Remarks	miscib	le			
Ignition temperature					
Remarks	not de	termined			
Viscosity	not do	torriniou			
Remarks					
Remarks	not de	termined			
		•.			
ECTION 10: Stability and r	eactiv	vity			
0.1. Reactivity None					
0.2. Chemical stability No hazardous reactions known.					
0.3. Possibility of hazardous r No hazardous reactions known.		ns			
0.4. Conditions to avoid No hazardous reactions known.					
0.5. Incompatible materials None					
0.6. Hazardous decomposition No hazardous decomposition p					

Safety data sheet in accordance w	-	Ilation (EC) No 1907	/2006	
rade name: Marabu Art Spray 031	, 50 ml			Marabu Marabu
Substance number: 120905031		Version: 6 / Replaces Version	: 5/WORLD	Date revised: 29.01.2020 Print date: 29.01.20
11.1. Information on toxicolo	ogical e	effects		
Acute oral toxicity	•			
Remarks	Based	on available data, th	e classification criteri	a are not met.
Acute oral toxicity (Compo	onents)			
Pyrithione zinc				
Species	Rats (I	male/female)		
LD50 Mathad		269	mg/kg	
Method	OECD	401		
1,2-Benzisothiazol-3(2h)-on Species	e rat			
LD50	Tut	1193	mg/kg	
Acute dermal toxicity			0.0	
Remarks	Based	on available data, th	e classification criteri	a are not met.
Acute dermal toxicity (Cor				
1,2-Benzisothiazol-3(2h)-on	-			
Species	e rat			
LD50	Tat	4115	mg/kg	
Acute inhalational toxicity			0.0	
Remarks		on available data, th	e classification criteri	a are not met.
Acute inhalative toxicity (0				
Pyrithione zinc	•	,		
Species	rat			
LC50		0,84	mg/l	
Administration/Form	Dust/N			
Method	OECD	403		
Skin corrosion/irritation				
Remarks		on available data, th	e classification criteri	a are not met.
Serious eye damage/irritat				
Remarks	Based	on available data, th	e classification criteri	a are not met.
Sensitization				
Remarks	Based	on available data, the	e classification criteri	a are not met.
Mutagenicity				
Remarks	Based	on available data, the	e classification criteri	a are not met.
Reproductive toxicity				
Remarks	Based	on available data, the	e classification criteri	a are not met.
Carcinogenicity				
Remarks	Based	on available data, the	e classification criteri	a are not met.
Specific Target Organ Tox	icity (S [.]	TOT)		
Single exposure Remarks	Based	on available data, th	e classification criteri	a are not met.
Repeated exposure Remarks		on available data, th		
Aspiration hazard	Duscu			
Based on available data, the	a classifi	cation criteria are not	met	
	- 0/255110			
Experience in practice	lad aret-	otive and actations -	outions are taken	norionoo ohawa that sa
Provided all the recommend risk to health can be expect		cuve and salety prec	autions are taken, ex	penence snows that no

Trade name: Marabu Art Spray 03	1. 50 ml				
		Version: 6	6 /		Marabu Date revised: 29.01.2020
Substance number: 120905031		Replaces \	/ersion:	5 / WORLD	Print date: 29.01.20
Other information There are no data availabl The mixture has been asso 1272/2008 and classified f	essed followin	g the addit			egulation (EC) No
SECTION 12: Ecological	informat	<u>ion</u>			
12.1. Toxicity General information					
There are no data availabl mixture has been assesse and is not classified as dar	d following the ngerous for th	e summatio	on metho		
Fish toxicity (Component	S)				
Pyrithione zinc Species LC50 Duration of exposure		out (Oncor 14		mykiss) mg/l	
Duration of exposure	90	6 h			
Bronopol (INN) Species LC50	rainbow tr 3	out (Oncor	hynchus	mykiss) mg/l	
Duration of exposure Method	96 OECD 203			C C	
Bronopol (INN)	reinh ou tr				
Species NOEC Duration of exposure		out (Oncor 61 } d	-	mykiss) mg/l	
Method	OECD 20				
A mixture of: 5-Chloro-2-m 2-Methyl-2H-isothiazol-3-o Species	ne [EC-no. 22		3:1) / C(M)IT/MIT (3:1)	d
LC50 Duration of exposure	0, 96	188 6 h	-	mg/l	
1,2-Benzisothiazol-3(2h)-o					
Species LC50		out (Oncor 18	hynchus	• •	
Duration of exposure	2, 96			mg/l	
Daphnia toxicity (Compo	nents)				
Pyrithione zinc					
Species	Daphnia n				
EC50 Duration of exposure	0, 48	05 8 h		mg/l	
Bronopol (INN)		, ,			
Species	Daphnia n	nagna			
EC50		04		mg/l	
Duration of exposure Method	48 OECD 202				
Bronopol (INN)					
Species	Daphnia n	-		-	
NOEC	0, 21	06 d		mg/l	
Duration of exposure					

Version: 6 / Date revised: 29.01.202 vabstance number: 120905031 Replaces Version: 5 / WORLD Print date: 29.01.202 spacies Daphnia magna EC50 0,126 mg/l Duration of exposure 48 h 1.2-Benzischiazol-3(2h)-one Species 29.01.202 Urration of exposure 48 h Algae toxicity (Components) Pyrithione zinc Species Selenastrum capricomutum UC50 0,067 mg/l Duration of exposure 72 h Bronopol (INN) Species Pseudokirchneriella subcapitata EC50 0,0027 mg/l Duration of exposure 72 h Method 0ECD 201 Bronopol (INN) Species Pseudokirchneriella subcapitata EC50 0,0025 mg/l Duration of exposure 72 h Method 0ECD 201 A mixture of: 5-Chlore-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-3-0ne [EC-no. 247-500-7] and 2-Methyl-2H-isothiazol-3-one [EC-no. 247-500-7] and 2-Methyl-2H-isothiazol-3-0ne [EC-no. 247-500-7] and 2-Methyl-2H-isothiazo	ade name: Marabu Art Spray 031				Maral
Species Daphnia magna ECS0 0,126 mg/l Duration of exposure 48 h 1,2-Benzisothiazol-3(2h)-one Species Daphnia magna ECS0 2,94 mg/l Duration of exposure 48 h Algae toxicity (Components) Pyrithione zinc Species Species Selenastrum capricomutum Species CS0 0,067 mg/l Duration of exposure 72 h Bronopol (INN) Species Pseudokirchneriella subcapitata ECS0 0,008 mg/l Duration of exposure 72 h Method OECD 201 Bronopol (INN) Species Pseudokirchneriella subcapitata NOEC NOEC 0,0025 mg/l Duration of exposure 72 h Method OECD 201 A A mixture of: 5-Chlor-2-methyl-2h-isothizol-3-one [EC-no. 247-500-7] and 2-Methyl-2h-isothizzol-3(2h)-one Species Selenastrum capricomutum ECS0 Duration of exposure 72 h 1.2-Ben				- /	Date revised: 29.01.202
ECS0 0,12Å mg/l Duration of exposure 48 h 1,2-Benzisothiazol-3(2h)-one 3,94 mg/l Duration of exposure 48 h Algae toxicity (Components) Pyrithione zine Species Selenastrum capricomutum (CSO 0,067 mg/l Duration of exposure 72 h Bronopol (INN) Species Pseudokirchneriella subcapitata ECSO 0,068 mg/l Duration of exposure 72 h Bronopol (INN) Species Pseudokirchneriella subcapitata NOEC 0,0067 mg/l Duration of exposure 72 h Bronopol (INN) Species Pseudokirchneriella subcapitata NOEC 0,0025 mg/l Duration of exposure 72 h Bronopol (INN) Species Pseudokirchneriella subcapitata NOEC 0,0025 mg/l Duration of exposure 72 h Bronopol (INN) Species Pseudokirchneriella subcapitata 0,0027 mg/l Duration of exposure 72 h Bronopol (INN) Species Pseudokirchneriella subcapitata 0,0027 mg/l Duration of exposure 72 h A mixture of: S-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(2H)-one [EC-no. 247-500-7] and 2-Methyl-2H-isothiazol-3-(EC-no. 247-500-7] and 2-Methyl-2H-isothiazol-3-(EC-no. 247-500-7] and 2-Methyl-2H-isoth	ubstance number: 120905031	R	eplaces Version:	5 / WORLD	Print date: 29.01.2
Duration of exposure 48 h 1.2-Benzisothiazol-3(2h)-one Species Daphnia magna ECS0 2.94 mg/l Duration of exposure 48 h Algae toxicity (Components) Pyrithione zine Species Selenastrum capricornutum ICS0 0,067 mg/l Duration of exposure 72 h Bronopol (INN) Species Pseudokirchneriella subcapitata ECS0 0,068 mg/l Duration of exposure 72 h Bronopol (INN) Species Pseudokirchneriella subcapitata NOEC 0,0025 mg/l Duration of exposure 72 h Bronopol (INN) Species Pseudokirchneriella subcapitata NOEC 0,0025 mg/l Duration of exposure 72 h Bronopol (INN) Species Pseudokirchneriella subcapitata NOEC 0,0025 mg/l Duration of exposure 72 h Bronopol (INN) Species Pseudokirchneriella subcapitata NOEC 0,0027 mg/l Duration of exposure 72 h Species Selenastrum capricornutum ECS0 0,027 mg/l Duration of exposure 72 h Species Pseudokirchneriella subcapitata Species 0,0027 mg/l Duration of exposure 72 h Species Network 72 h Amixture 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 (IC-no. 247-500-7] and 2		Daphnia ma	agna		
1.2-Benzisothizzol-3(2h)-one Species Daphnia magna ECSO 2,94 mg/l Duration of exposure 48 h Alignet to the properties of the properis of the properties of the properties of the properti				mg/l	
Species Daphnia magna ECS0 2.94 mg/l Duration of exposure 48 h Algae toxicity (Components) Pyrithine zinc Species Selenastrum capricornutum [CS0 0,067 mg/l Duration of exposure 72 h Bronopol (INN) Species Pseudokirchneriella subcapitata ECS0 0,068 mg/l Duration of exposure 72 h Bronopol (INN) Species Pseudokirchneriella subcapitata NOEC 201 Bronopol (INN) Species Pseudokirchneriella subcapitata NOEC 201 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-3-0e [EC-no	•		h		
EC50 2.94 mg/l Duration of exposure 4.8 h Algae toxicity (Components) Pyrithione zinc Species Selenastrum capricornutum IC50 0,067 mg/l Duration of exposure 72 h Bronopol (INN) Species Pseudokirchneriella subcapitata EC50 0,068 mg/l Duration of exposure 72 h Method OECD 201 Bronopol (INN) Species Pseudokirchneriella subcapitata NOEC 0,0025 mg/l Duration of exposure 72 h Method OECD 201 Bronopol (INN) Species Pseudokirchneriella subcapitata NOEC 0,0025 mg/l Duration of exposure 72 h Method OECD 201 Bronopol (INN) Species Pseudokirchneriella subcapitata NOEC 0,0025 mg/l Duration of exposure 72 h Method OECD 201 Bronopol (INN) Species Pseudokirchneriella subcapitata NOEC 0,0025 mg/l Duration of exposure 72 h Method OECD 201 A mixture of: 5-Chitor-2-methyl-2h-isothizzol-3-one [EC-no. 247-500-7] and 2-Methyl-2H-isothizzol-3-one [EC-no. 247-5					
Duration of exposure 48 h Algae toxicity (Components) Prithione zinc Species Selenastrum capricormutum IC50 0,067 mg/l Duration of exposure 72 h Bronopol (INN) Species Pseudokirchneriella subcapitata EC50 0,068 mg/l Duration of exposure 72 h Bronopol (INN) Species Pseudokirchneriella subcapitata NOEC 0,0025 mg/l Duration of exposure 72 h Method OECD 201 OECD 201 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 Species Selenastrum capricormutum EC50 0,027 Duration of exposure 72 h 1,2-Benzisothiazol-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] mg/l Duration of exposure 72 h 1,2-Benzisothiazol-3(2h)-one Species Selenastrum capricormutum Duration of exposure 72					
Algae toxicity (Components) Pyrithione zinc Species Selenastrum capricornutum IC50 0,067 mg/l Duration of exposure 72 h Bronopol (INN) Species Pseudokirchneriella subcapitata EC50 0,068 mg/l Duration of exposure 72 h Bronopol (INN) Technopol (INN) mg/l Species Pseudokirchneriella subcapitata mg/l NOEC 0,0025 mg/l Duration of exposure 72 h Method OECD 201 Technopol (INN) Species Pseudokirchneriella subcapitata mg/l Duration of exposure 72 h Method OECD 201 Technopol (INN) Species Selenastrum capricornutum EC50 0,0027 Duration of exposure 72 h mg/l Duration of exposure				mg/i	
Pyrithione zinc Species Selenastrum capricornutum ICS0 0,067 mg/l Duration of exposure 72 h Bronopol (INN) Species Pseudokirchneriella subcapitata EC50 0,068 mg/l Duration of exposure 72 h Method OECD 201 Bronopol (INN) Species Pseudokirchneriella subcapitata mg/l NOEC 0,0025 mg/l Duration of exposure 72 h Method OECD 201 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 Species Selenastrum capricornutum EC50 0,027 Duration of exposure 72 h 1.2-Benzisothiazol-3(2h)-one Species Selenastrum capricornutum EC50 0,11 mg/l Duration of exposure 72 h 1.2-Benzisothiazol-3(2h)-one Species Species Species Pseudokirchneriella subcapitata EC50 Oparation of exposure 72 h		-			
Species Selenatrum capricornutum ICS0 0,067 mg/l Duration of exposure 72 h Bronopol (INN) Species Pseudokirchneriella subcapitata EC50 0,068 mg/l Duration of exposure 72 h Method OECD 201 Bronopol (INN) Species Pseudokirchneriella subcapitata NOEC 0,0025 mg/l Duration of exposure 72 h Method OECD 201 Bronopol (INN) Species Pseudokirchneriella subcapitata NOEC 0,0025 mg/l Duration of exposure 72 h Method OECD 201 Bronopol (INN) Species Selenastrum capricornutum Selenastrum capricornutum Species Selenastrum capricornutum mg/l Duration of exposure 72 h 1.2-Benzisothiazol-3(2h)-one Species Species Species Pseudokirchneriella subcapitata ErC50 0,11 mg/l Duration of exposure 72 h I Imag/		113)			
ICs0 0.067 mg/l Duration of exposure 72 h Bronopol (INN) Species Mg/l Duration of exposure 72 h Bronopol (INN) Species Mg/l Species Pseudokirchneriella subcapitata mg/l NOEC 0.0025 mg/l Duration of exposure 72 h Method OECD 201 mg/l Duration of exposure 72 h Method OECD 201 mg/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 CEC-no. 220-339-6] (3:1) / C(M)IT/MIT (3:1) Species Species Selenastrum capricornutum EC50 0.027 mg/l Duration of exposure 72 h 1 2-Benzisothiazol-3(2h)-one Species Species Species Nethod 1 mg/l Duration of exposure 72 h mg/l 1 1 1 1 2-Benzisothiazol-30(1) mg/l 1 1 1 1 1 </td <td></td> <td>Solonootrur</td> <td></td> <td></td> <td></td>		Solonootrur			
Duration of exposure 72 h Bronopol (INN) Species Pseudokirchneriella subcapitata EC50 0,068 mg/l Duration of exposure 72 h Method OECD 201 Bronopol (INN) Species Pseudokirchneriella subcapitata Motion NOEC 0,0025 mg/l Duration of exposure 72 h Method OECD 201 Motion 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 Species Selenastrum capricornutum EC50 0,027 EC50 0,027 mg/l Duration of exposure 72 h 1.2-Benzisothiazol-3(2h)-one Species Pseudokirchneriella subcapitata ErC50 0,011 mg/l Duration of exposure 72 h 1 2.9 1 2.1 Persistence and degradability General information There are no data available on the mixture itself. 2.3. Bioaccumulative potential General information				ma/l	
Bronopol (INN) Pseudokirchneriella subcapitata Species 0,068 mg/l Duration of exposure 72 h Bronopol (INN) Species 0.0025 mg/l Duration of exposure 72 h h Method 0ECD 201 mg/l mg/l Duration of exposure 72 h mg/l A mixture of: 5-Chloro-2-methyl-2h-isothiazol-3-one [EC-no. 247-500-7] and 2.Methyl-2H-isothiazol-3(2h-0ine) species Species Nel Species Selenastrum capricornutum mg/l mg/l Duration of exposure 72 h mg/l 1.2-Benzisothiazol-3(2h)-one Species Pseudokirchneriella subcapitata mg/l mg/l mg/l EC50 0,11 mg/l				ing/i	
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 Safety data sheet in accordance with regulation (EC) No 1907/2006
 Image: Marabu Art Spray 031, 50 ml

 Version: 6 /
 Date revised: 29.01.2020

13.1. Waste treatment methods

Substance number: 120905031

Disposal recommendations for the product

The product can be placed with other household refuse. Small residues in containers can be washed-out with water and put into the drainage system.

Replaces Version: 5 / WORLD

Print date: 29.01.20

Disposal recommendations for packaging

Packaging that cannot be cleaned should be disposed off as product waste.

Completely emptied packagings can be given for recycling.

SECTION 14: Transport information

	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 AICS inventory.

All components are contained in the PICCS inventory.

Trada namal Marahu Art Carry 00	
Frade name: Marabu Art Spray 03	Marab
0 1 / / / / / / / / / / / / / / / / / /	Version: 6 / Date revised: 29.01.2020
Substance number: 120905031	Replaces Version: 5 / WORLD Print date: 29.01.20
All components are contair	
	ned in the IECSC inventory.
All components are contain	
-	ned in the TSCA inventory or exempted.
15.2. Chemical safety asses For this preparation a chem	nical safety assessment has not been carried out.
ECTION 16: Other infor	mation
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.
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.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410 H411	Very toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects.
CLP categories listed in C	
Acute Tox. 2	Acute toxicity, Category 2
Acute Tox. 2 Acute Tox. 3	Acute toxicity, Category 3
Acute Tox. 3	Acute toxicity, Category 4
Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic, Category 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. 1	Skin sensitization, Category 1
Skin Sens. 1A	Skin sensitization, Category 1A
STOT SE 3	Specific target organ toxicity - single exposure, Category 3
Supplemental information	
	ed with the previous version of the safety data sheet are marked with: *** on our present state of knowledge. However, it should not constitute a
	product properties and shall not establish a legally valid relationship.
The information in this Safe	ety Data Sheet is based on the present state of knowledge and current
legislation.	of the perfective and any irranmental concerts of the product and chould not be
	alth, safety and environmental aspects of the product and should not be
	e of technical performance or suitability for particular applications.
	used for purposes other than those shown in Section 1 without first referring og written handling instructions.
	of use of the product are outside the supplier's control, the user is responsible
	ements of relevant legislation are complied with.
	in this safety data sheet does not constitute the user's own assessment of

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.