Safety data sheet in accorda	ince with regula	tion (EC) No 1907	7/2006	
Trade name: Marabu Art Spra	ay 078, 50 ml			Marabu
Substance number: 1209050	78	Version: 6 / Replaces Versior	n: 5/WORLD	Date revised: 29.01.2020 Print date: 29.01.20
	10			
SECTION 1. Identified	otion of the	cubstanaa/n	nivture and of	tha
SECTION 1: Identifica company/undertaking		Substance/I	nixture and or	<u>ine</u>
<b>1.1. Product identifier</b> Marabu Art Spray 078	_			
1.2. Relevant identified		ubstance or m	ixture and uses	advised against
			ixture and uses a	auviseu agailist
Use of the substance/p Spray paint	reparation			
Identified Uses				
SU21 PC9a		s: Private househo aints, thinners, pai	lds (= general public int removers	= consumers)
1.3. Details of the suppl	lier of the safe	ety data sheet		
Address/Manufacture	er		Importer -	
Marabu GmbH & Co.	KG		S&S Wholesale Pty	
Asperger Strasse 4 71732 Tamm			18/10 Pioneer Aver	
Germany			Thornleigh NSW 2	The second s
Telephone no.	+49-7141/691-0		Tel: 1300 731 529	Fax: 1300 739 715
Fax no.	+49-7141/691-		Emorgonau Contact	
Information provided by / telephone	Department pro	bouct safety	Emergency Contact S&S Wholesale Pty.	
E-mail address of	PRSI@marabu	i.com	Tel: 1300 731 529	Fax: 1300 739 715
person responsible for this SDS				
1.4. Emergency telepho	ne number			
(+49) (0)621-60-4333	3			
SECTION 2: Hazards	identificatio	on ***		
2.1. Classification of the	e substance o	or mixture		
This product is not cla	ssified hazardou	s in accordance wi	ith Regulation (EC) N	o 1272/2008.
2.2. Label elements				
Labelling according	g to regulation	n (EC) No 1272	2/2008	
EUH208 Contains		othiazol-3-one, A n		<b>-</b>
***			-one [EC-no. 247-50 -no. 220-239-6] (3:1)	
			y produce an allergic	
Supplemental inform	ation			
Labelling according t	o regulation (E	EU) No 528/2012	***	
Contains a biocidal pr 2-Methyl-2H-isothiazo				ne [EC-no. 247-500-7] and
<b>2.3. Other hazards</b> No special hazards ha	ave to be mentior	ned.		
			<b>II</b> ( data)	

## SECTION 3: Composition/information on ingredients \*\*\*

## 3.2. Mixtures

**Chemical characterization** 

ade name: Marabu Art Sp	-					Mara
		Version:				Date revised: 29.01.202
ubstance number: 120905	5078	Replace	s Versio	on: 5/W	ORLD	Print date: 29.01.2
Spray paint based o	n acrylic resins and	on wate	r			
Hazardous ingredie	nts ***					
Bronopol (INN)						
CAS No.	52-51-7					
EINECS no.	200-143-0					
Registration no.	01-2119980938-			0.4	0/	
Concentration	>= 0,	01	<	0,1	%	
Classification (Regu	lation (EC) No. 1272	2/2008)				
( )	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) N	o. 1272/	2008)			
	Aquatic Acute 1			= 10		
	Aquatic Chronic	H410	M =	= 1		
	1					
Pyrithione zinc						
CAS No.	13463-41-7					
EINECS no.	236-671-3					
Registration no.	01-2119511196-	46				
Concentration	>= 0,	01	<	0,025	%	
Classification (Regu	lation (EC) No. 127	2/2008)				
Classification (Regu	Acute Tox. 3	2,2000)	H301			
	Acute Tox. 3		H331			
	Eye Dam. 1		H318			
	Aquatic Acute 1		H400			
	Aquatic Chronic	1	H410			
Concentration limits	(Pagulation (EC) N	a 1070/	2008)			
Concentration limits	Aquatic Acute 1	H400		= 100		
	Aquatic Chronic	H410		= 100		
	1					
1,2-Benzisothiazol-3	(2h)-one					
CAS No.	2634-33-5					
EINECS no.	220-120-9					
Concentration			<	0,05	%	
Classification (Regu	lation (EC) No. 127	2/20081				
e adomication (regu	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			
Concentration limits	(Regulation (EC) N	n 1979/	20081			
Concentration infitts	Skin Sens. 1	0. 1272/ H317		0,05		

	Art Spray 078, 50 ml		0 /			Mara
bstance number: 1	20905078	Version: Replaces		: 5/WC	ORLD	Date revised: 29.01.202 Print date: 29.01.2
CAS No. Concentration	55965-84-9			0,001	%	
Concentration			<	0,001	/0	
Classification	(Regulation (EC) No. 12	72/2008)	L1220			
	Acute Tox. 2 Aquatic Chroni	c 1	H330 H410			
	Aquatic Acute		H400			
	Skin Sens. 1A		H317			
	Skin Corr. 1C		H314			
	Acute Tox. 2		H310			
	Acute Tox. 3		H301			
Concentration	limits (Regulation (EC)		,			
	Skin Corr. 1C	H314	,			
	Eye Irrit. 2	H319		06 < 0,6		
	Skin Irrit. 2 Skin Sens. 1	H315 H317		06 < 0,6		
	Aquatic Acute					
	Aquatic Chroni		M = 1			
2 Mothul 2L ior	1 Sthiopol 2 and					
2-Methyl-2H-iso CAS No.	2682-20-4					
EINECS no.	220-239-6					
Concentration			<	0,0015	%	
Classification	(Regulation (EC) No. 12	72/2008)				
Olassincation	Acute Tox. 3	12/2000)	H301			
	Acute Tox. 2		H330			
	Skin Corr. 1B		H314			
	Eye Dam. 1		H318			
	Aquatic Acute	1	H400			
	Skin Sens. 1A	o 1	H317			
	Aquatic Chroni Acute Tox. 3	CI	H410 H311			
Concentration	limite (Pequilation (EC)	No 1070/2	0000			
Concentration	limits (Regulation (EC) Skin Sens. 1A			0015		
	Aquatic Acute					
CTION 4: Fire	st aid measures					
1. Description o	f first aid measure	5				
After skin cont	act					
	nty of water and soap. D	o NOT us	e solvent	s or thinn	ers.	
After eye conta			-			
	-	ughly with	water (1	5 min.). Ir	n case of irr	itation consult an oculist.
After ingestion						_
Rinse mouth t medical treatm	horoughly with water. If nent.	arger amo	unts are	swallowe	d or in the e	event of symptoms take
	nt symptoms and e	offacts h	oth ac	uto and	dolavod	
z. most importa					aciayeu	
Until now no s	ymptoms known so far.					

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

Trade name: Marabu Art Spray 078, 50 ml

Version: 6 /

Date revised: 29.01.2020 Print date: 29.01.20

Substance number: 120905078

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 dioxide (CO2); Carbon monoxide (CO); 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

## 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	n

mg/m³

rade name: Marabu Art Spray 078,	50 ml	$\Delta V$
	Version: 6 /	Marabu Date revised: 29.01.2020
Substance number: 120905078	Replaces Version: 5 / WORLD	Print date: 29.01.20
	Derived 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	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)	

rade name: Marabu Art Spray 078,		Marah
	Version: 6 /	Date revised: 29.01.2020
Substance number: 120905078	Replaces Version: 5 / WORLD	Print date: 29.01.2
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	Long 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	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
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	
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 w	vith regulation (EC) No 1907/2006	
Trade name: Marabu Art Spray 078,		Marabu
	Version: 6 /	Date revised: 29.01.2020
Substance number: 120905078	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 Conce	ntration (PNEC)	
Bronopol (INN)		
Type of value	PNEC	
Type	Freshwater	
Concentration	0,01	mg/l
Type of value	PNEC	
Туре	Saltwater	<i>"</i>
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	٦.	
SECTION 9: Physical and	I chemical properties	
	ysical and chemical properties	
Form	liquid	
Colour	coloured	
Odour Odour thread old	odourless	
Odour threshold	No. dete avertet to	
Remarks	No data available	
pH value	<b>-</b>	
Value	7 to 9 20 °C	
Temperature Method	20 °C WTW PH 340	
Melting point		
Remarks	not determined	
	not dotominou	
Freezing point		

Version: 6 / Date revised: 29.01.2020	Trade name: Marabu Art Spray 078, 50	ml				
Remarks       not determined         Initial boiling point and boiling range       'C         Value       appr. 100       'C         Pressure       1.013       hPa         Source       Literature value       'C         Flash point       Remarks       Not applicable         Evaporation rate (ether = 1):       Remarks       not determined         Remarks       not determined       'C         Plasmability (solid, gas)       Not applicable       'D         Not applicable       Upper/lower flammability or explosive limits       Remarks         Remarks       not determined       'P         Value       appr. 23       hPa         Temperature       20       'C         Wethod       Value taken from the literature       'Value         Value       1       'C       g/cm <sup>3</sup> Temperature       20       'C       'C         Method       DIN EN ISO 2811       Solubility in water       genarks         Remarks       not determined       'Viscosity       Remarks       not determined         Solubility in water       Remarks       not determined       'N'scosity       'N'scosity'         Remarks       not determined			Version:	6 /		Marabu Date revised: 29.01.2020
Initial boiling point and boiling range       "C         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)	Substance number: 120905078		Replaces	Version:	5 / WORLD	Print date: 29.01.20
Value       appr.       100       *C         Pressure       1.013       hPa         Source       Literature value         Flash point       Remarks       Not applicable         Evaporation rate (ether = 1) :       Remarks       not determined         Remarks       not determined       Flammability (solid, gas)         Not applicable       Upper/lower flammability or explosive limits         Remarks       not determined         Vapour pressure       20       *C         Value apprature       20       *C         Method       Value taken from the literature         Vapour density       Remarks       not determined         Density       Value       1       g/cm³         Value       1       g/cm³         Solubility in water       Remarks       not determined         Remarks       not determined       Image: Section table       Section table         Ignition temperature       20       *C       Method       Image: Section table         Remarks       not determined       Section table       Section table       Image: Section table       Image: Section table         Remarks       not determined       Section table       Image: Section table	Remarks	not de	termined			
Pressure       1.013       hPa         Source       Literature value         Flash point       Remarks       Not applicable         Evaporation rate (ether = 1) :       not determined         Remarks       not determined         Flammability (solid, gas)       Not applicable         Upper/lower flammability or explosive limits       Remarks         Remarks       not determined         Vapour pressure       Value         Value       appr. 23         Temperature       20         Wethod       Value taken from the literature         Value       1       g/cm <sup>3</sup> Temperature       20       °C         Method       Value taken from the literature         Value       1       g/cm <sup>3</sup> Temperature       20       °C         Method       DIN EN ISO 2811         Solubility in water       Remarks       miscible         Ignition temperature       20       °C         Remarks       not determined       Viscosity         Remarks       not determined       Viscosity         Remarks       not determined       Viscosity         Remarks       not determined       Viscosity <td>Initial boiling point and boiling</td> <td>g range</td> <td></td> <td></td> <td></td> <td></td>	Initial boiling point and boiling	g range				
Source       Literature value         Flash point       Remarks       Not applicable         Evaporation rate (ether = 1) :       not determined         Remarks       not determined         Flammability (solid, gas)       Not applicable         Vapper/lower flammability or explosive limits       Remarks         Remarks       not determined         Vapour pressure       Vapour pressure         Value       appr. 23       hPa         Temperature       20       °C         Method       Value taken from the literature         Vapour density       Remarks       not determined         Panetics       not determined       g/cm³         Oensity       Value       1       g/cm³         Value       1       g/cm³       g/cm³         Solubility in water       Remarks       not determined         Remarks       not determined       Seccritons troe       Seccriton 10: Stability and reactivity         None       No       not determined       Seccriton 10: Stability and reactivity         None       No hazardous reactions known.       Seccriton 10: Stability and reactivity       Seccriton 10: Stability of hazardous reactions known.         10.1. Reactivity       None       No hazardous reac		appr.			C°	
Flash point       Remarks       Not applicable         Evaporation rate (ether = 1) :       Remarks       not determined         Flammability (solid, gas)       Not applicable       Pressure         Vapour pressure       not determined       Pressure         Value       appr. 23       hPa         Temperature       20       °C         Method       Value taken from the literature         Value       1       g/cm³         Method       1       g/cm³         Value       1       g/cm³         Method       DIN EN ISO 2811         Solubility in water       Remarks       miscible         Remarks       not determined         Viscosity       Remarks       not determined         SetECTION 10: Stability and reactivity       None       Int. Reactivity         None       not determined       SetEction 4: Stability and reactions known.       Int. Reactions treactions known.         10.1. Reactivity       None       None       Int. Acardous reactions known.         10.2. Chemical stability       f Azardous reactions known.       Int. Azardous reactions known.         10.4. Conditions to avoid       None       None       Int. Reactions known.         10.5. Incompatible materials		Literat		nPa		
Remarks       Not applicable         Evaporation rate (ether = 1) : Remarks       in ot determined         Remarks       not determined         Flammability (solid, gas) Not applicable       in ot determined         Upper/lower flammability or evaluation on the determined       in ot determined         Vapour pressure       appr. 23       hPa         Yalue       appr. 20°C       hPa         Temperature       20°C       hPa         Method       Value taken from the literature       g/cm³         Value       1       g/cm³         Temperature       20°C       meanks         Nateriod       DIN EN ISO 2811       Din En ISO 2811         Solubility in water       appr. 20°C       g/cm³         Remarks       miscible       Ignition temperature         Remarks       not determined       Image: Section 10: Stability and reactivity         None       not determined       Image: Section 10: Stability and reactivity         None       No hazardous reactions known.       Image: Section 10: Stability of hazardous reactions known.         10.1. Reactivity       None       No hazardous reactions known.         10.2. Chemical stability       No hazardous reactions known.       Image: Section Shnow.         10.4. Conditions		Literat				
Evaporation rate (ether = 1) :       Remarks       not determined         Remarks       not determined         Vapour pressure       Not appr. 23       hPa         Value       appr. 23       hPa         Temperature       20       °C         Method       Value taken from the literature       HPa         Value       1       °C         Method       DIN EN ISO 2811       Solubility in water         Remarks       not determined       g/cm³         Solubility in water       appr. 20       °C         Remarks       not determined       g/cm³         Solubility in water       appr. 20       °C         Remarks       not determined       g/cm³         Solubility in water       appr. 20       °C         Remarks       miscible       g/cm³         Ignition temperature       20       °C         Remarks       not determined       Sectored         Solubility in water       Remarks       mot determined         Remarks       not determined       Sectored         Solubility of Lazardous reactions known.       Sectored       Sectored         Solubility of hazardous reactions known.       Sectored       Sectored	-	Not ap	plicable			
Remarks       not determined         Flammability (solid, gas) Not applicable       Not applicable         Upper/lower flammability or explosive limits Remarks       not determined         Vapour pressure       20 °C         Value       appr. 23 hPa         Temperature       20 °C         Method       Value taken from the literature         Vapour density       Remarks         Remarks       not determined         Density       1 g/cm³         Value       1 g/cm³         Value       1 g/cm³         Solubility in water       Remarks         Remarks       not determined         Viscosity       Remarks         Remarks       not determined         Viscosity       Remarks         Remarks       not determined         Viscosity       Remarks         Remarks       not determined         SECTION 10: Stability and reactivity         None       No hazardous reactions known.         10.1. Reactivity       None         No hazardous reactions known.       No hazardous reactions known.         10.4. Conditions to avoid       None         None       None						
Flammability (solid, gas) Not applicable         Upper/lower flammability or explosive limits Remarks       not determined         Vapour pressure       20 °C         Value       appr. 23 hPa         Temperature       20 °C         Method       Value taken from the literature         Vapour density       Remarks         Remarks       not determined         Density       g/cm³         Value       1 g/cm³         Temperature       20 °C         Method       DIN EN ISO 2811         Solubility in water       g/cm³         Remarks       not determined         Ignition temperature       20 °C         Remarks       not determined         Solubility in water       Remarks         Remarks       not determined         Stacosity       Remarks         Remarks       not determined         SECTION 10: Stability and reactivity         None       No hazardous reactions known.         10.1. Reactivity       No hazardous reactions known.         10.3. Possibility of hazardous reactions known.       No hazardous reactions known.         10.4. Conditions to avoid       No hazardous reactions known.         10.5. Incompatible materials       None	,	not det	termined			
Upper/Jower flammability or explosive limits Remarks       not determined         Vapour pressure       appr. 23       hPa         Value       appr. 23       hPa         Temperature       20       °C         Method       Value taken from the literature         Vapour density       Remarks       not determined         Density       Image: space spac	Flammability (solid, gas)					
Remarks       not determined         Value       appr. 23       hPa         Temperature       20 °C         Method       Value taken from the literature         Vapour density       Remarks       not determined         Density       Remarks       not determined         Value       1       g/cm³         Value       not determined       Viscosity         Remarks       not determined       Viscosity         Remarks       not determined       Viscosity         Remarks       not determined		xplosiv	ve limits			
Value       appr. 23       hPa         Temperature       20<°C	•••	•				
Value       appr. 23       hPa         Temperature       20       °C         Method       Value taken from the literature         Vapour density       Remarks       not determined         Density       1       g/cm³         Value       1       g/cm³         Temperature       20       °C         Method       DIN EN ISO 2811       Solubility in water         Remarks       miscible       Ignition temperature         Remarks       not determined       Fermearks         Noiscosity       Remarks       not determined         SECTION 10: Stability and reactivity       None       Intermined         10.1. Reactivity       None       No hazardous reactions known.         10.2. Chemical stability       No hazardous reactions known.       No hazardous reactions known.         10.3. Possibility of hazardous reactions known.       No hazardous reactions known.       Intermined         10.4. Conditions to avoid       No hazardous reactions known.       No hazardous reactions known.         10.5. Incompatible materials None       None       None         10.6. Hazardous decomposition products       Kentonity       Kentonity						
Temperature       20       °C         Method       Value taken from the literature         Vapour density       Remarks         Remarks       not determined         Density       1       g/cm³         Value       1       g/cm³         Temperature       20       °C         Method       DIN EN ISO 2811       Solubility in water         Remarks       miscible       Ignition temperature         Remarks       not determined       Fermarks         SECTION 10: Stability and reactivity       Fermarks       Fermarks         None       Io1.1. Reactivity       None         10.2. Chemical stability       No hazardous reactions known.       Fermional         10.3. Possibility of hazardous reactions known.       Fermional       Fermional         10.4. Conditions to avoid       No hazardous reactions known.       Fermional         10.5. Incompatible materials       None       Fermional         10.6. Hazardous decomposition products       Fermiona		appr.	23		hPa	
Vapour density       not determined         Remarks       not determined         Density       1       g/cm³         Value       1       g/cm³         Temperature       20<°C			20	-		
Remarks not determined   Density 1   Value 1   Temperature 20   Method DIN EN ISO 2811   Solubility in water Not betermined   Remarks miscible   Ignition temperature Remarks   Remarks not determined   Viscosity Remarks   Remarks not determined   SECTION 10: Stability and reactivity   10.1. Reactivity None   No hazardous reactions known.   10.3. Possibility of hazardous reactions No hazardous reactions known.   10.4. Conditions to avoid No hazardous reactions known.   10.5. Incompatible materials None   10.6. Hazardous decomposition products		Value	taken from	n the litera	ature	
Density       1       g/cm <sup>3</sup> Yalue       1       g/cm <sup>3</sup> Temperature       20       °C         Method       DIN EN ISO 2811         Solubility in water       Remarks       miscible         Ignition temperature       Remarks       not determined         Viscosity       Remarks       not determined         Viscosity       Remarks       not determined         SECTION 10: Stability and reactivity       10.1. Reactivity       None         10.1. Reactivity       None       None         10.2. Chemical stability       No hazardous reactions known.       10.3. Possibility of hazardous reactions No hazardous reactions known.         10.3. Possibility of hazardous reactions known.       10.4. Conditions to avoid No hazardous reactions known.       10.5. Incompatible materials None         10.6. Hazardous decomposition products       10.6. Hazardous decomposition products						
Value       1       g/cm <sup>3</sup> Temperature       20       °C         Method       DIN EN ISO 2811         Solubility in water       Remarks         Remarks       miscible         Ignition temperature       Remarks         Remarks       not determined         Viscosity       Remarks         Remarks       not determined         SECTION 10: Stability and reactivity         10.1. Reactivity       None         10.2. Chemical stability       No hazardous reactions known.         10.3. Possibility of hazardous reactions       No hazardous reactions known.         10.4. Conditions to avoid       No hazardous reactions known.         10.5. Incompatible materials Nore       None         10.6. Hazardous decomposition products       Kenterial stability		not de	termined			
Temperature       20       °C         Method       DIN EN ISO 2811         Solubility in water       Remarks         Remarks       miscible         Ignition temperature       Remarks         Remarks       not determined         Viscosity       Remarks         Remarks       not determined         SECTION 10: Stability and reactivity         10.1. Reactivity         None         10.2. Chemical stability         No hazardous reactions known.         10.3. Possibility of hazardous reactions         No hazardous reactions known.         10.4. Conditions to avoid         No hazardous reactions known.         10.5. Incompatible materials         None         10.6. Hazardous decomposition products	-				1 2	
Method       DIN EN ISO 2811         Solubility in water       miscible         Remarks       miscible         Ignition temperature       not determined         Remarks       not determined         Viscosity       Remarks         Remarks       not determined         SECTION 10: Stability and reactivity       Interest in the sectivity         10.1. Reactivity       None         10.2. Chemical stability       No hazardous reactions known.         10.3. Possibility of hazardous reactions       Reactivity         No hazardous reactions known.       Interest in the section sectin section section sectin section section section section section				ംറ	g/cm³	
Remarks       miscible         Ignition temperature       Remarks         Remarks       not determined         Viscosity       Remarks         Remarks       not determined         SECTION 10: Stability and reactivity       Remarks         10.1. Reactivity       None         10.2. Chemical stability       No hazardous reactions known.         10.3. Possibility of hazardous reactions       No hazardous reactions known.         10.4. Conditions to avoid       No hazardous reactions known.         10.5. Incompatible materials None       None         10.6. Hazardous decomposition products       Kenter				-		
Remarks       miscible         Ignition temperature       Remarks         Remarks       not determined         Viscosity       Remarks         Remarks       not determined         SECTION 10: Stability and reactivity       Remarks         10.1. Reactivity       None         10.2. Chemical stability       No hazardous reactions known.         10.3. Possibility of hazardous reactions       No hazardous reactions known.         10.4. Conditions to avoid       No hazardous reactions known.         10.5. Incompatible materials None       None         10.6. Hazardous decomposition products       Kenter	Solubility in water					
Remarks       not determined         Viscosity       Remarks         Remarks       not determined         SECTION 10: Stability and reactivity         10.1. Reactivity         None         10.2. Chemical stability         No hazardous reactions known.         10.3. Possibility of hazardous reactions         No hazardous reactions known.         10.4. Conditions to avoid         No hazardous reactions known.         10.5. Incompatible materials         None         10.6. Hazardous decomposition products	Remarks	miscib	le			
Remarks       not determined         Viscosity       Remarks         Remarks       not determined         SECTION 10: Stability and reactivity         10.1. Reactivity         None         10.2. Chemical stability         No hazardous reactions known.         10.3. Possibility of hazardous reactions         No hazardous reactions known.         10.4. Conditions to avoid         No hazardous reactions known.         10.5. Incompatible materials         None         10.6. Hazardous decomposition products	Ignition temperature					
Remarks       not determined         SECTION 10: Stability and reactivity         10.1. Reactivity         None         10.2. Chemical stability         No hazardous reactions known.         10.3. Possibility of hazardous reactions         No hazardous reactions known.         10.4. Conditions to avoid         No hazardous reactions known.         10.5. Incompatible materials         None         10.6. Hazardous decomposition products		not det	termined			
Remarks       not determined         SECTION 10: Stability and reactivity         10.1. Reactivity         None         10.2. Chemical stability         No hazardous reactions known.         10.3. Possibility of hazardous reactions         No hazardous reactions known.         10.4. Conditions to avoid         No hazardous reactions known.         10.5. Incompatible materials         None         10.6. Hazardous decomposition products	Viscosity					
<ul> <li>SECTION 10: Stability and reactivity</li> <li>10.1. Reactivity None</li> <li>10.2. Chemical stability No hazardous reactions known.</li> <li>10.3. Possibility of hazardous reactions No hazardous reactions known.</li> <li>10.4. Conditions to avoid No hazardous reactions known.</li> <li>10.5. Incompatible materials None</li> <li>10.6. Hazardous decomposition products</li> </ul>		_				
<ul> <li>10.1. Reactivity None</li> <li>10.2. Chemical stability No hazardous reactions known.</li> <li>10.3. Possibility of hazardous reactions No hazardous reactions known.</li> <li>10.4. Conditions to avoid No hazardous reactions known.</li> <li>10.5. Incompatible materials None</li> <li>10.6. Hazardous decomposition products</li> </ul>	Remarks	not de	termined			
None 10.2. Chemical stability No hazardous reactions known. 10.3. Possibility of hazardous reactions No hazardous reactions known. 10.4. Conditions to avoid No hazardous reactions known. 10.5. Incompatible materials None 10.6. Hazardous decomposition products	SECTION 10: Stability and re	eactiv	vity			
No hazardous reactions known. <b>10.3. Possibility of hazardous reactions</b> No hazardous reactions known. <b>10.4. Conditions to avoid</b> No hazardous reactions known. <b>10.5. Incompatible materials</b> None <b>10.6. Hazardous decomposition products</b>	•					
No hazardous reactions known. <b>10.4. Conditions to avoid</b> No hazardous reactions known. <b>10.5. Incompatible materials</b> None <b>10.6. Hazardous decomposition products</b>						
<ul> <li>10.4. Conditions to avoid No hazardous reactions known.</li> <li>10.5. Incompatible materials None</li> <li>10.6. Hazardous decomposition products</li> </ul>		eactio	ns			
10.5. Incompatible materials None 10.6. Hazardous decomposition products	10.4. Conditions to avoid					
10.6. Hazardous decomposition products	10.5. Incompatible materials					
		nrod-	uoto			

de name: Marabu Art Spray 078	, 50 ml	Version: 6	6 /		Maa Date revised: 29.01.20
bstance number: 120905078		Replaces \	/ersion:	5 / WORLD	Print date: 29.01.
1.1. Information on toxicolo	ogical e	effects			
Acute oral toxicity	-				
Remarks	Based	on available d	lata, the	classification crite	ria are not met.
Acute oral toxicity (Compo	onents)				
Pyrithione zinc					
Species	Rats (I	male/female)			
LD50 Method	OECD	269 401		mg/kg	
1,2-Benzisothiazol-3(2h)-on		401			
Species	rat				
LD50		1193		mg/kg	
Acute dermal toxicity					
Remarks	Based	on available d	lata, the	classification crite	ria are not met.
Acute dermal toxicity (Cor	nponen	ts)			
1,2-Benzisothiazol-3(2h)-on	e				
Species	rat				
LD50		4115		mg/kg	
Acute inhalational toxicity					
Remarks			lata, the	classification crite	ria are not met.
Acute inhalative toxicity (C	Compor	ients)			
Pyrithione zinc					
Species LC50	rat	0.94		ma/l	
Administration/Form	Dust/N	0,84 ⁄list		mg/l	
Method	OECD				
Skin corrosion/irritation					
Remarks	Based	on available d	lata, the	classification crite	ria are not met.
Serious eye damage/irritat	ion				
Remarks	Based	on available d	lata, the	classification crite	ria are not met.
Sensitization					
Remarks	Based	on available d	lata, the	classification crite	ria are not met.
Mutagenicity					
Remarks	Based	on available d	lata, the	classification crite	ria are not met.
Reproductive toxicity					
Remarks	Based	on available d	lata, the	classification crite	ria are not met.
Carcinogenicity					
Remarks	Based	on available d	lata, the	classification crite	ria are not met.
Specific Target Organ Tox	icity (S <sup>.</sup>	ТОТ)			
Single exposure Remarks	Doce		oto the	oloopification arits	rio ara pat mat
	Dased	on available d	iala, me	classification crite	na die nui mei.
Repeated exposure Remarks	Based	on available d	lata, the	classification crite	ria are not met.
Aspiration hazard					
Based on available data, the	e classifi	cation criteria a	are not m	net.	
Experience in practice					

Frade name: Marabu Art Spray 07	78, 50 ml				
		Version	: 6/		Date revised: 29.01.2020
Substance number: 120905078		Replace	es Version:	5 / WORLD	Print date: 29.01.20
Other information					
There are no data availabl The mixture has been ass	essed followi	ng the a	dditivity met		egulation (EC) No
1272/2008 and classified f	-		ds accordin	giy.	
SECTION 12: Ecological 12.1. Toxicity	<u>i informa</u>	tion			
General information					
There are no data availabl	e on the mixt	uro itsoli	Do not allo	w to enter drains (	or water courses The
	d following th	ie summ	ation metho		ulation (EC) No 1272/2008
Fish toxicity (Component	•				
Pyrithione zinc					
Species			corhynchus		
LC50 Duration of exposure	0 9	,14 6	h	mg/l	
Bronopol (INN)	5	0			
Species	rainbow t	rout (On	corhynchus	mykiss)	
LĊ50	3		-	mg/l	
Duration of exposure Method	9 OECD 20		h		
Bronopol (INN)					
Species NOEC		,61	corhynchus	mykiss) mg/l	
Duration of exposure	2		d	iiig/i	
Method	OECD 20	)3			
A mixture of: 5-Chloro-2-m					d
2-Methyl-2H-isothiazol-3-o Species			6] (3:1) / C( corhynchus		
LC50		,188	corrynchus	mg/l	
Duration of exposure	9		h	5	
1,2-Benzisothiazol-3(2h)-o	ne				
Species		•	corhynchus	• •	
LC50 Duration of exposure	2	,18 6	h	mg/l	
Daphnia toxicity (Compo		0			
	nemsj				
Pyrithione zinc Species	Daphnia I	magna			
EC50		,05		mg/l	
Duration of exposure	4	8	h	C C	
Bronopol (INN)					
Species	Daphnia i			···· • //	
EC50 Duration of exposure	1	,04 8	h	mg/l	
Method	OECD 20				
Bronopol (INN)					
Species	Daphnia i			-	
NOEC	0	,06	d	mg/l	
Duration of exposure	2	1			

ade name: Marabu Art Spray 078				Marab
		on: 6/		Date revised: 29.01.2020
ubstance number: 120905078	Repla	ces Version:	5 / WORLD	Print date: 29.01.20
Species	Daphnia magna			
EC50	0,126		mg/l	
Duration of exposure	48	h		
1,2-Benzisothiazol-3(2h)-or				
Species EC50	Daphnia magna		~~~~~/l	
Duration of exposure	2,94 48	h	mg/l	
Algae toxicity (Componen	-			
• • • •				
Pyrithione zinc Species	Solonostrum on	nricorputum		
IC50	Selenastrum ca 0,067	pheomatam	mg/l	
Duration of exposure	72	h	iiig/i	
Bronopol (INN)	· <b>-</b>			
Species	Pseudokirchner	iella subcanit	ata	
EC50	0,068		mg/l	
Duration of exposure	72	h	Ũ	
Method	OECD 201			
Bronopol (INN)				
Species	Pseudokirchner	iella subcapit		
NOEC	0,0025 72	h	mg/l	
Duration of exposure Method	0ECD 201	n		
A mixture of: 5-Chloro-2-m			no 247 500 71 and	
2-Methyl-2H-isothiazol-3-or				
Species	Selenastrum ca		( ) ( )	
EC50	0,027		mg/l	
Duration of exposure	72	h		
1,2-Benzisothiazol-3(2h)-or	e			
Species	Pseudokirchner	iella subcapii		
ErC50 Duration of exposure	0,11 72	h	mg/l	
	. =			
2.2. Persistence and degra	dability			
General information				
There are no data available	on the mixture its	elf.		
2.3. Bioaccumulative poter	ntial			
General information				
There are no data available	on the mixture its	alf		
		511.		
2.4. Mobility in soil				
General information				
There are no data available	on the mixture its	elf.		
2.5. Results of PBT and vP	vB assessmer	nt		
General information				
There are no data available	on the mixture its	elf.		
2.6. Other adverse effects				
General information				
There are no data available	on the mixture itse	elf.		

 Safety data sheet in accordance with regulation (EC) No 1907/2006
 Image: Marabu Art Spray 078, 50 ml

 Trade name: Marabu Art Spray 078, 50 ml
 Version: 6 /
 Date revised: 29.01.2020

 Substance number: 120905078
 Replaces Version: 5 / WORLD
 Print date: 29.01.20

## 13.1. Waste treatment methods

## 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.

#### 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.

Safety data sheet in accordan	ce with regulation (EC) No 1907/2006	
Trade name: Marabu Art Spray	1	Marab
Substance number: 120905078	Replaces Version: 5 / WORLD Print date: 29.0	1.20
•	ained in the DSL inventory.	
	ained in the IECSC inventory.	
	ained in the NZIOC inventory.	
-	ained in the TSCA inventory or exempted.	
<b>15.2. Chemical safety ass</b> For this preparation a cl	eessment nemical safety assessment has not been carried out.	
SECTION 16: Other inf	ormation	
Hazard statements list	ed 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	Very toxic to aquatic life with long lasting effects.	
H411	Toxic to aquatic life with long lasting effects.	
CLP categories listed i	-	
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, 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 Skin Corr. 1B	Serious eye damage, Category 1	
Skin Corr. 1C	Skin corrosion, Category 1B Skin corrosion, Category 1C	
Skin Cont. 1C Skin Irrit. 2	Skin consistin, 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 informat		
	ared with the previous version of the safety data sheet are marked with: ***	
	d on our present state of knowledge. However, it should not constitute a	
guarantee for any speci The information in this S	ic product properties and shall not establish a legally valid relationship. afety Data Sheet is based on the present state of knowledge and current	
legislation.		
	health, safety and environmental aspects of the product and should not be not b	
	be used for purposes other than those shown in Section 1 without first referring	
	ning written handling instructions.	
	s of use of the product are outside the supplier's control, the user is responsible	ć
	uirements of relevant legislation are complied with.	-

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.