Trade name: Marabu Brilliant	PainterSort. Ka			Marab
		Version: 5 /		Date revised: 28.06.2018
Substance number: 0121000	080000	Replaces Version:	4 / WORLD	Print date: 07.09.20
SECTION 4. Identifie	otion of th	a aubatanaa/mi	viure and of	( <b>t</b> ha
<u>SECTION 1: Identific</u> company/undertakin		e substance/mi	xture and of	<u>the</u>
	2			
1.1. Product identifier Marabu BrilliantPainte	erSort. Karten			
1.2. Relevant identified	uses of the	substance or mix	ture and uses	advised against
Use of the substance/p Paint	reparation			
1.3. Details of the supp	lier of the sa	afety data sheet		
Address/Manufacture	er		Importer -	
Marabu GmbH & Co.	KG		S&S Wholesal	le Pty. Limited
Asperger Strasse 4			18/10 Pioneer	r Avenue,
71732 Tamm Germany			Thornleigh N	SW 2120
Telephone no.	+49-7141/69	1-0	Tel: 1300 731 5	529 Fax: 1300 739 715
Fax no.	+49-7141/69			
Information provided	Department	product safety	Emergency Co	
by / telephone E-mail address of	PRSI@mara	hu com		le Pty. Limited
person responsible	FRSI@IIIdia	bu.com	Tel: 1300 731 5	529 Fax: 1300 739 715
for this SDS				
1.4. Emergency telepho				
(+49) (0)621-60-4333	3			
SECTION 2: Hazards	identifica	tion ***		
2.1. Classification of the	e substance	e or mixture		
Classification (Regul	ation (EC) No	o. 1272/2008)		
Classification (Regula	• •	•		
	Flam. Liq. 3	H226		
	STOT SE 3	H336		
2.2. Label elements				
Labelling according	g to regulati	ion (EC) No 1272/2	008	
Hazard pictograms				
	<b>`</b>			
$\sim$ $\sim$				
Signal word				
Warning				
Hazard statements				
H336		rowsiness or dizziness		
H226		quid and vapour.		
Precautionary statem				
P101		vice is needed, have p	roduct container o	r label at hand.
P102 P210		each of children. rom heat, hot surfaces,	sparks open flam	nes and other ignition
1210				

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	sources. No smokin	ıg.			
P271	Use only outdoors of	or in a well-ve	ntilated	area.	
P405 P501.9	Store locked up. Dispose of contents	container as	problem	natic waste	
Hazardous compone	•		•		No. 1272/2008)
contains ***	1-Methoxy-2-propar	nol; 2-Methox	y-1-metł	nylethyl acet	tate
2.3. Other hazards					
No special hazards r	have to be mentioned.				
ECTION 3: Compos	sition/informati	<u>on on inc</u>	redie	<u>nts ***</u>	
8.2. Mixtures					
Chemical characteri	ization				
Paint based on solve	ents				
Hazardous ingredie	nts ***				
1-Methoxy-2-propand					
CAS No.	107-98-2				
EINECS no. Registration no.	203-539-1 01-2119457435-35				
Concentration	>= 25	<	50	%	
Classification (Regu	lation (EC) No. 1272/20	008)			
	STOT SE 3	H336			
	Flam. Liq. 3	H226			
2-Methoxy-1-methyle	ethyl acetate				
CAS No.	108-65-6				
EINECS no. Registration no.	203-603-9 01-2119475791-29				
Concentration	>= 1	<	10	%	
Classification (Regu	lation (EC) No. 1272/20	008)			
	Flam. Liq. 3	H226			
	STOT SE 3	H336			
ECTION 4: First aid	<u>d measures</u>				
1. Description of firs	t aid measures				
General information	1				
	, or when symptoms pe erson. If unconscious p				ver give anything by mouth k medical advice.
After inhalation			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Remove to fresh air, artificial respiration.	keep patient warm and	d at rest. If bro	eathing i	s irregular o	or stopped, administer
After skin contact					

#### After eye contact

Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.

### After ingestion

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If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

- **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 needed Hints for the physician / treatment

Treat symptomatically

# SECTION 5: Firefighting measures

# 5.1. Extinguishing media

# Suitable extinguishing media

Recommended: alcohol resistant foam, CO2, powders, water spray/mist, Not be used for safety reasons: water jet

# 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

### Special protective equipment for fire-fighting

Cool closed containers exposed to fire with water. Do not allow run-off from fire fighting to enter drains or water courses.

# SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures Exclude sources of ignition and ventilate the area. Avoid breathing vapours. Refer to protective

measures listed in Sections 7 and 8.

# 6.2. Environmental precautions

Do not allow to enter drains or waterways. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

# 6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). 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

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear anti-static footwear and clothing and floors should be of the conducting type. Isolate from sources of heat, sparks and open flame. No sparking tools should be used. Avoid skin and eye contact. Avoid the inhalation of particulates and spray mist arising from the application of this mixture. Smoking, eating and drinking shall

	Safety data sheet in	n accordance with	regulation (EC) No 1907/2006		
Substance number:         012100000080         Replaces Version:         4 /WORLD         Print date: 07.09.           be prohibited in application area. For personal protection see Section 8. Never use pressure to empty: container is not a pressure vessel. Always keep in containers of same material as the original one. Comply with the health and safety at work laws. Do not allow to enter drains or water courses.         Advice on protection against fire and explosion         Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.           Classification of fires / temperature class / Ignition group / Dust explosion class         Classification of fires / temperature class / Ignition group / Dust explosion class           Requirements for storage rooms and vessels         Requirements for storage grooms and vessels         Requirements for storage rooms in which filling operations take place must have a conducting floor. Store in accordance with national regulation           Mints on storage assembly         Storage rooms in which filling operations take place must have a conducting floor. Store in accordance with national regulation           Observe label precautions. Store between 15 and 30 °C in a dry, well ventilated place away from sources of heat and direct sunight. Keep container tightly closed. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.           7.3. Specific end use(s) Paint         Derived No Effect Level (DNEL) Reference group         Worker Uuration of exposure Conget term           Mode of action         Syst	Trade name: Marab	u BrilliantPainterSor	t. Karten		Marsha
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Type of valueDerived No Effect Level (DNEL)Reference groupConsumerDuration of exposureLong termRoute of exposuredermalMode of actionSystemic effects			•		2
Reference groupConsumerDuration of exposureLong termRoute of exposuredermalMode of actionSystemic effects	Concentration	on	275	mg/r	n°
Duration of exposureLong termRoute of exposuredermalMode of actionSystemic effects			•	L)	
Route of exposuredermalMode of actionSystemic effects					
Mode of action Systemic effects					
Concentration 320 mg/Kg/d			•		ka/d
	Concentratio	UII	320	mg/i	y/u
Type of value Derived No Effect Level (DNEL)	Type of yeld	IE	Derived No Effect Level (DNE)		
Reference group Consumer			•	-,	
Duration of exposure Long term					

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Version: 5 / Date revised: 28.06.2018 Print date: 07.09.20 Substance number: 012100000080 Replaces Version: 4 / WORLD inhalative Route of exposure Mode of action Systemic effects Concentration 33 mg/m<sup>3</sup> 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 33 mg/m<sup>3</sup> 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 36 mg/kg/d Type of value Derived No Effect Level (DNEL) Reference group Worker Duration of exposure Lifetime Route of exposure inhalative Mode of action Local effects Concentration 550 mg/m<sup>3</sup> 1-Methoxy-2-propanol Type of value Derived No Effect Level (DNEL) Reference group Worker Duration of exposure Acute Route of exposure inhalative Mode of action Local effects Concentration 553.5 mg/m<sup>3</sup> Derived No Effect Level (DNEL) Type of value Reference group Worker Duration of exposure Long term Route of exposure dermal Systemic effects Mode of action Concentration 50.6 mg/person/ d 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 369 mg/m<sup>3</sup> Type of value Derived No Effect Level (DNEL) Reference group **General Population** Duration of exposure Long term Route of exposure dermal Mode of action Systemic effects Concentration mg/kg 18,1 Type of value Derived No Effect Level (DNEL) Reference group **General Population** 

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Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	43,9	mg/m³
	Derived No. Effect Level (DNEL)	
Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	3,3	mg/kg/d
Predicted No Effect Concentr	· · · ·	
2-Methoxy-1-methylethyl aceta		
Reference substance	2-Methoxy-1-methylethyl acetate	
Type of value	PNEC	
Туре	Freshwater	
Concentration	0,635	mg/l
Type of value	PNEC	
Туре	Freshwater sediment	
Concentration	3,29	mg/kg
Type of value	PNEC	
Туре	Soil	
Concentration	0,29	mg/kg
Source	Literature value	
Type of value	PNEC	
Туре	Sewage treatment plant (STP)	
Concentration	100	mg/l
Source	Literature value	
The states		
Type of value	PNEC	
Туре	Marine sediment	
Concentration	0,329	mg/kg
Source	Literature value	
Type of value	PNEC	
Type	Saltwater	
Concentration	0,0635	mg/l
1-Methoxy-2-propanol		
Type of value	PNEC	
Туре	Freshwater	
Concentration	10	mg/l
Type of value	PNEC	
Туре	Water	
Concentration	41,6	mg/kg
<b>T (</b>	DNEO	
Type of value	PNEC	
Туре	Sediment	-
Concentration	41,6	mg/kg
Type of value	PNEC	
Type	Marine sediment	
i ypc		

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Concentration	4,17	mg/kg
Type of value Type Concentration	PNEC Soil 2,47	mg/kg
Type of value Type Concentration	PNEC Sewage treatment plant (STP) 100	mg/l

# 8.2. Exposure controls

#### **Exposure controls**

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

#### **Respiratory protection**

If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators. Full mask, filter A

#### Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

For prolonged or repeated handling nitrile rubber gloves with textile undergloves are required.

Material thickness	>	0,5	mm
Breakthrough time	<	30	min

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred.

### Eye protection

Use safety eyewear designed to protect against splash of liquids.

#### **Body protection**

Cotton or cotton/synthetic overalls or coveralls are normally suitable.

# SECTION 9: Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

Form	Liquid
Colour	coloured
Odour	solvent-like
Odour threshold	
Remarks	No data available
pH value	
Remarks	Not applicable
Melting point	
Remarks	not determined
Freezing point	
Remarks	not determined

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Initial boiling point and boilin	g range				
Value	appr. 120			°C	
Pressure	1.013	hPa		-	
Source	Literature value				
Flash point					
Value	31			°C	
Method	ASTM D 6450 (C	CCFP)			
Evaporation rate (ether = 1) :					
Remarks	not determined				
Flammability (solid, gas) Not applicable					
Upper/lower flammability or e	xplosive limits				
Lower explosion limit	appr. 1,5			%(V)	
Upper explosion limit Source	appr. 13,7 Literature value			%(V)	
Vapour pressure					
Value	appr. 12	~ <b>~</b>		hPa	
Temperature Method	20 calculated	°C			
Vapour density	calculated				
Remarks	not determined				
Density					
Value	0,9	to	1,3	g/cm³	
Temperature	20	°C	.,.	9,011	
Method	DIN EN ISO 2811				
Solubility in water					
Remarks	immiscible				
Partition coefficient: n-octanc	ol/water				
Remarks	Not applicable				
Ignition temperature					
Value	appr. 287			°C	
Source	Literature value				
Efflux time					
Remarks	not determined				
Explosive properties					
evaluation	no				
Oxidising properties					
evaluation	None known				
9.2. Other information					
Other information					

# Other information

The physical specifications are approximate values and refer to the used safety relevant component(s).

# SECTION 10: Stability and reactivity

# 10.1. Reactivity

No hazardous reactions when stored and handled according to prescribed instructions.

### 10.2. Chemical stability

Stable under recommended storage and handling conditions (see section 7).

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ubstance number: 01	2100000080	Replaces Versio	n: 4/WORLD	Print date: 07.09.
0.3. Possibility of Keep away from exothermic read	n oxidising agents,	<b>ctions</b> strongly alkaline and s	strongly acid materia	Is in order to avoid
0.4. Conditions to When exposed		es may produce hazar	dous decomposition	products.
0.5. Incompatible No hazardous r		ed and handled accord	ding to prescribed in	structions.
0.6. Hazardous de See chapter 5.2		r <b>oducts</b> ures - Special hazarda	s arising from the su	bstance or mixture).
ECTION 11: Tox	<u>kicological in</u>	formation		
1.1. Information o	n toxicological	effects		
Acute oral toxic	-			
Remarks	•	ed on available data, th	he classification crite	eria are not met.
Acute oral toxic	ity (Components			
1-Methoxy-2-pro		- /		
Species	rat			
LD50		5200	mg/kg	
Acute dermal to	xicity			
Remarks	Base	ed on available data, th	he classification crite	eria are not met.
Acute dermal to	xicity (Compone	ents)		
1-Methoxy-2-pro	panol			
Species	rabbi			
LD50		14000	mg/kg	
Acute inhalation	-			
Remarks		ed on available data, th	he classification crite	eria are not met.
Skin corrosion/i	rritation			
Remarks	Base	ed on available data, th	he classification crite	eria are not met.
Serious eye dan	nage/irritation			
Remarks	Base	ed on available data, th	he classification crite	eria are not met.
Sensitization				
Remarks	Base	ed on available data, th	he classification crite	eria are not met.
Mutagenicity				
Remarks	Base	ed on available data, th	he classification crite	eria are not met.
Reproductive to	xicity			
Remarks	Base	ed on available data, th	he classification crite	eria are not met.
Carcinogenicity				
Remarks		ed on available data, th	he classification crite	eria are not met.
Specific Target	Organ Toxicity (	STOT)		
Single exposu	re			
Remarks	The	classification criteria a		
	May	cause drowsiness or o	dizziness.	
evaluation	Way			
evaluation <b>Repeated expo</b> Remarks	osure	ed on available data, th		

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Based on available data, the classification criteria are not met.

### **Experience in practice**

Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage. Ingestion may cause nausea, diarrhoea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

### Other information

There are no data available on the mixture itself. The mixture has been assessed following the additivity method of the CLP Regulation (EC) No 1272/2008 and classified for toxicological hazards accordingly.

# **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)

<b>1-Methoxy-2-propanol</b> Species LC0	golden >	orfe (Leuci 4600	scus idus)	mg/l
Duration of exposure	-	96	h	ing/i
Daphnia toxicity (Compone	ents)			
<b>1-Methoxy-2-propanol</b> Species EC50 Duration of exposure	·	ia magna 23300 48	h	mg/l
Algae toxicity (Component	s)			
<b>1-Methoxy-2-propanol</b> Species EC50 Duration of exposure	Desmo >	odesmus 1000 168	h	mg/l
Bacteria toxicity (Compone	ents)			
<b>1-Methoxy-2-propanol</b> Species EC50	activat >	ed sludge 1000		mg/l
12.2. Persistence and degrad	lability	1		
General information No data available				
Biodegradability (Compone	ents)			
<b>1-Methoxy-2-propanol</b> Value Duration of test		90 28	d	%
evaluation	Readil	y biodegrad	able (according to C	DECD criteria)

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Method	OEC	CD 301 F	
General info There are n Partition coe Remarks 12.4. Mobility in General info There are n 12.5. Results of General info	o data available on the fficient: n-octanol/ soil rmation o data available on the PBT and vPvB as rmation o data available on the	water Not applicable e mixture itself. ssessment	
	o data available on the		
	Disposal consideration of the second se	derations	
13.1. Waste trea Disposal rec Do not allow Wastes and The Europe EWC waste If this produ appropriate	atment methods ommendations for v to enter drains or wat emptied containers sh an Waste Catalogue c code 08 0 uct is mixed with other v code should be assign	the product ter courses. hould be classified in accordance with rele classification of this product, when dispose 01 11* waste paint and varnish contair dangerous substances wastes, the original waste product code m	d of as waste is ning organic solvents or other
<b>13.1. Waste trea</b> <b>Disposal rec</b> Do not allow Wastes and The Europe EWC waste If this produ appropriate For further i	atment methods ommendations for v to enter drains or wat emptied containers sh an Waste Catalogue c code 08 0 uct is mixed with other v code should be assign	the product ter courses. hould be classified in accordance with rele classification of this product, when dispose of 11* waste paint and varnish contair dangerous substances wastes, the original waste product code m hed. ur local waste authority.	d of as waste is ning organic solvents or other
13.1. Waste trea Disposal rec Do not allow Wastes and The Europe EWC waste If this produ appropriate For further i	atment methods ommendations for v to enter drains or wat emptied containers sh an Waste Catalogue of code 08 0 ot is mixed with other v code should be assign information contact you ommendations for	the product ter courses. hould be classified in accordance with rele classification of this product, when dispose of 11* waste paint and varnish contair dangerous substances wastes, the original waste product code m hed. ur local waste authority.	d of as waste is ning organic solvents or other

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	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	D/E		
14.1. UN number	1263	1263	1263
14.2. UN proper shipping name	PAINT	PAINT	PAINT
14.3. Transport hazard class(es)	3	3	3
Label			
14.4. Packing group	Ш	Ш	111
Special provision	640E		
Limited Quantity	51		
Transport category	3		
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

### VOC

VOC (CH)	43	%
VOC (EU)	43	%

# Other information

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

# **15.2. Chemical safety assessment**

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

# SECTION 16: Other information

Safety data sheet in accordance with regulation (EC) No 1907/2006 Trade name: Marabu BrilliantPainterSort, Karten Version: 5 / Date revised: 28.06.2018 Print date: 07.09.20 Substance number: 012100000080 Replaces Version: 4 / WORLD Hazard statements listed in Chapter 3 H226 Flammable liquid and vapour. May cause drowsiness or dizziness. H336 CLP categories listed in Chapter 3 Flam, Liq, 3 Flammable liquid, Category 3 STOT SE 3 Specific target organ toxicity - single exposure. Category 3 Supplemental information 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.