



FLEUR DESIGNER'S PAINT SATIN VARNISH

Revision nr. 1
Dated 06/08/2020
Printed 06/07/2022
Page n. 1/17

SAFETY DATA SHEET

According to Annex II to REACH - Regulation 2015/830

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

1.1. Product identifier

Code:

12605 - 12655 - 13004 - 13002

Product name

Fleur Satin Varnish

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use

Not available

Uses Advised Against

Uses other than those identified as relevant in the previous point.

1.3. Details of the supplier of the safety data sheet

Name

Full address

District and Country

COLORIFICIO CENTRALE S.R.L.

Via Industria 12,14,16

25030 Torbole Casaglia, Brescia (BS) - IT

e-mail address of the competent person
responsible for the Safety Data Sheet

info@fleurpaint.com

1.4. Emergency telephone number

For urgent inquiries refer to

Company phone number: 030 2151004

United Kingdom: National Poisons Information Service - City Hospital, Birmingham
B187QH, United Kingdom +44 121 507 4123

-
Ireland: National Poisons Information Centre - Beaumont Hospital, Beaumont, Dublin
9.,
Ireland +35318092566

-
Malta: Malta Competition and Consumer Affairs Authority (MCCAA) Mizzi House,
National Road, Blata I-Bajda HMR9010, Malta +356 2395 2000
Malta: Mater Dey Hospital: Tel: 2545 0000

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP). However, since the product contains hazardous substances in concentrations such as to be declared in section no. 3, it requires a safety data sheet with appropriate information, compliant to (EU) Regulation 2015/830.
Hazard classification and indication:

2.2. Label elements



FLEUR DESIGNER'S PAINT SATIN VARNISH

Revision nr. 1
Dated 06/08/2020
Printed 06/07/2022
Page n. 2/17

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms: --

Signal words: --

Hazard statements:

EUH210

EUH208

Safety data sheet available on request.

Contains: reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1), 1,2-benzisothiazol-3(2H)-one

May produce an allergic reaction.

Precautionary statements:

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VOC (Directive 2004/42/EC) :

Interior / exterior trim varnishes and woodstains.

VOC given in g/litre of product in a ready-to-use condition : 3,00

Limit value: 130,00

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage $\geq$ than 0,1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
diisobutyl esters C4-6		
CAS -	$2 \leq x < 2,5$	
EC 907-870-9		
INDEX -		
REACH Reg. 01-2119486562-31-XXXX		
AMORPHOUS SILICATE HYDRATE		
CAS 7631-86-9	$1,5 \leq x < 2$	
EC 231-545-4		
INDEX		
REACH Reg. 01-2119379499-16-0000		
2-(2-BUTOXYETHOXY)ETHANOL		
CAS 112-34-5	$0,1125 \leq x < 0,1135$	Eye Irrit. 2 H319



FLEUR DESIGNER'S PAINT SATIN VARNISH

Revision nr. 1
Dated 06/08/2020
Printed 06/07/2022
Page n. 3/17

EC 203-961-6

INDEX 603-096-00-8

1,2-benzisothiazol-3(2H)-one

CAS 2634-33-5

$0,0216 \leq x < 0,0226$

Acute Tox. 2 H330, Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411

EC 220-120-9

INDEX 613-088-00-6

REACH Reg. 01-2120761540-60

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

CAS 55965-84-9

$0,0013 \leq x < 0,0014$

Acute Tox. 2 H310, Acute Tox. 2 H330, Acute Tox. 3 H301, Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=100, Aquatic Chronic 1 H410 M=100, EUH071

EC 611-341-5

INDEX 613-167-00-5

REACH Reg. 01-2120764691-48

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.
SKIN: Remove contaminated clothing. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.
INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.
INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless authorised by a doctor.

4.2. Most important symptoms and effects, both acute and delayed

Information not available

4.3. Indication of any immediate medical attention and special treatment needed

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.



FLEUR DESIGNER'S PAINT

SATIN VARNISH

Revision nr. 1
Dated 06/08/2020
Printed 06/07/2022
Page n. 4/17

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters



FLEUR DESIGNER'S PAINT

SATIN VARNISH

Revision nr. 1
Dated 06/08/2020
Printed 06/07/2022
Page n. 5/17

Regulatory References:

BGR	България	МИНИСТЕРСТВО НА ТРУДА И СОЦИАЛНАТА ПОЛИТИКА МИНИСТЕРСТВО НА ЗДРАВЕОПАЗВАНЕТО НАРЕДБА No 13 от 30 декември 2003 г (4 Септември 2018г)
CZE	Česká Republika	Nařízení vlády č. 246/2018 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů
DEU	Deutschland	TRGS 900 - Seite 1 von 69 (Fassung 29.03.2019)- Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte
ESP	España	LÍMITES DE EXPOSICIÓN PROFESIONAL PARA AGENTES QUÍMICOS EN ESPAÑA 2019 (INSST)
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Third edition,published 2018)
GRC	Ελλάδα	ΕΦΗΜΕΡΙΔΑ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ - ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 152 - 21 Αυγούστου 2018
ITA	Italia	DIRETTIVA (UE) 2017/164 DELLA COMMISSIONE del 31 gennaio 2017
NLD	Nederland	Regeling van de Staatssecretaris van Sociale Zaken en Werkgelegenheid van 13 juli 2018, 2018-0000118517 tot wijziging van de Arbeidsomstandighedenregeling in verband met de implementatie van Richtlijn 2017/164 in Bijlage XIII
POL	Polska	ROZPORZĄDZENIE MINISTRA RODZINY, PRACY I POLITYKI SPOŁECZNEJ z dnia 12 czerwca 2018 r
PRT	Portugal	Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria de protecção dos trabalhadores contra os riscos para a segurança e a saúde devido à exposição a agentes químicos no trabalho - Diário da República, 1.ª série - N.º 111 - 11 de junho de 2018
SVK	Slovensko	Nariadenie vlády č. 33/2018 Z. z. Nariadenie vlády Slovenskej republiky, ktorým sa mení a dopĺňa nariadenie vlády Slovenskej republiky č. 355/2006 Z. z. o ochrane zamestnancov pred rizikami súvisiacimi s expozíciou chemickým faktorom pri práci v znení neskorších predpisov
EU	OEL EU	Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2020

diisobutyl esters C4-6

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,0016	mg/l
Normal value in marine water	0,00016	mg/l
Normal value for fresh water sediment	0,122	mg/kg/d
Normal value for marine water sediment	0,0122	mg/kg/d
Normal value for water, intermittent release	0,016	mg/l
Normal value of STP microorganisms	0,1	mg/l
Normal value for the food chain (secondary poisoning)	NPI	
Normal value for the terrestrial compartment	0,0236	mg/kg/d
Normal value for the atmosphere	NPI	

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		NPI		NPI				
Inhalation	NPI	NPI	2,5 mg/m3	NPI	NPI	NPI	4,2 mg/m3	NPI
Skin	NPI	NPI	NPI	NPI	NPI	NPI	NPI	NPI

AMORPHOUS SILICATE HYDRATE

Threshold Limit Value

Type	Country	TWA/8h	STEL/15min	Remarks / Observations
		mg/m3	ppm	
AGW	DEU	4		INHAL
MAK	DEU	4		INHAL

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation								4 mg/m3



FLEUR DESIGNER'S PAINT

SATIN VARNISH

Revision nr. 1
Dated 06/08/2020
Printed 06/07/2022
Page n. 6/17

2-(2-BUTOXYETHOXY)ETHANOL

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	67,5	10	101,2	15	
TLV	CZE	70	10,57	100	15,1	
AGW	DEU	67	10	100,5 (C)	15 (C)	Hinweis
MAK	DEU	67	10	100,5	15	Hinweis
VLA	ESP	67,5	10	101,2	15	
WEL	GBR	67,5	10	101,2	15	
TLV	GRC	67,5	10	101,2	15	
VLEP	ITA	67,5	10	101,2	15	
TGG	NLD	50		100		SKIN
NDS/NDSch	POL	67		100		
VLE	PRT	67,5	10	101,2	15	
NPEL	SVK	67,5	10	101,2	15	
OEL	EU	67,5	10	101,2	15	
TLV-ACGIH		66	10			

1,2-benzisothiazol-3(2H)-one

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,00403	mg/l
Normal value in marine water	0,000403	mg/l
Normal value for fresh water sediment	0,0499	mg/kg/d
Normal value for marine water sediment	0,00499	mg/kg/d
Normal value for water, intermittent release	0,0011	mg/l
Normal value of STP microorganisms	1,03	mg/l
Normal value for the terrestrial compartment	3	mg/kg/d
Normal value for the atmosphere	NPI	

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		NPI		NPI				
Inhalation	NPI	NPI	NPI	1,2 mg/m3	NPI	NPI	NPI	6,81 mg/m3
Skin		NPI		0,345 mg/kg bw/d		NPI		0,966 mg/kg bw/d

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,00339	mg/l
Normal value in marine water	0,00339	mg/l
Normal value for fresh water sediment	0,027	mg/kg/d
Normal value for marine water sediment	0,027	mg/kg/d
Normal value for water, intermittent release	0,00339	mg/l
Normal value of STP microorganisms	0,23	mg/l



FLEUR DESIGNER'S PAINT SATIN VARNISH

Revision nr. 1
Dated 06/08/2020
Printed 06/07/2022
Page n. 7/17

Normal value for the food chain (secondary poisoning)				NPI				
Normal value for the terrestrial compartment				0,01 mg/kg/d				
Normal value for the atmosphere				VND				
Health - Derived no-effect level - DNEL / DMEL								
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		0,11 mg/kg bw/d		0,09 mg/kg bw/d				
Inhalation	0,04 mg/m3	NPI	0,02 mg/m3	NPI	0,04 mg/m3	NPI	0,02 mg/m3	NPI
Skin	VND	NPI	NPI	NPI	VND	NPI	NPI	NPI

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Information
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FLEUR DESIGNER'S PAINT SATIN VARNISH

Revision nr. 1
Dated 06/08/2020
Printed 06/07/2022
Page n. 8/17

Appearance	liquid	
Colour	transparent white	
Odour	mild	
Odour threshold	Not available	Reason for missing data:Mild odor. No olfactory threshold available for the substances contained in the mixture.
pH	8	
Melting point / freezing point	0 °C	
Initial boiling point	100 °C	
Boiling range	Not determined	Reason for missing data:Mixture, technically not possible.
Flash point	> 61 °C	
Evaporation rate	Not determined	
Flammability	not applicable	Reason for missing data:the mixture is liquid
Lower inflammability limit	Not applicable	Reason for missing data:the mixture is not flammable
Upper inflammability limit	Not applicable	Reason for missing data:the mixture is not flammable
Lower explosive limit	Not applicable	Reason for missing data:the mixture is not explosive
Upper explosive limit	Not applicable	Reason for missing data:the mixture is not explosive
Vapour pressure	17,5 mmHg	Substance:WATER
Relative vapour density	1	Substance:WATER
Relative density	1,03 ± 0,05 kg/l kg/l	
Solubility	Partially miscible in water	
Partition coefficient: n-octanol/water	Not applicable	Reason for missing data:Mixture, technically not possible.
Auto-ignition temperature	Not applicable	Reason for missing data:product not self-igniting
Decomposition temperature	Not available	
Kinematic viscosity	450 ± 150 cP	Method:Dynamic viscosity
Explosive properties	Not explosive	
Oxidising properties	Non oxidizing	

9.2. Other information

Total solids (250°C / 482°F)	35,46 %
VOC (Directive 2004/42/EC) :	0,39 % - 4,04 g/litre
VOC (volatile carbon) :	< 0.01 % - 0,07 g/litre

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.



FLEUR DESIGNER'S PAINT SATIN VARNISH

Revision nr. 1
Dated 06/08/2020
Printed 06/07/2022
Page n. 9/17

2-(2-BUTOXYETHOXY)ETHANOL

May react with: oxidising substances. May form peroxides with: oxygen. Develops hydrogen on contact with: aluminium. May form explosive mixtures with: air.

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

2-(2-BUTOXYETHOXY)ETHANOL

Avoid exposure to: air.

10.5. Incompatible materials

2-(2-BUTOXYETHOXY)ETHANOL

Incompatible with: oxidising substances, strong acids, alkaline metals.

10.6. Hazardous decomposition products

2-(2-BUTOXYETHOXY)ETHANOL

May develop: hydrogen.

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

2-(2-BUTOXYETHOXY)ETHANOL
WORKERS: inhalation; contact with the skin.

Delayed and immediate effects as well as chronic effects from short and long-term exposure



FLEUR DESIGNER'S PAINT

SATIN VARNISH

Revision nr. 1
Dated 06/08/2020
Printed 06/07/2022
Page n. 10/17

2-(2-BUTOXYETHOXY)ETHANOL

May be absorbed by inhalation, ingestion and skin contact; is irritating for the skin and especially for the eyes. May cause damage to the spleen. At room temperature the danger of inhalation is unlikely, due to the low vapour pressure of the substance.

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation) of the mixture:	Not classified (no significant component)
ATE (Oral) of the mixture:	Not classified (no significant component)
ATE (Dermal) of the mixture:	Not classified (no significant component)

1,2-benzisothiazol-3(2H)-one

LD50 (Oral):	490 mg/kg rats
LD50 (Dermal):	> 2000 mg/kg rats

AMORPHOUS SILICATE HYDRATE

LC50 (Inhalation):

LD50 (Oral):	> 2000 mg/kg Rat
LD50 (Dermal):	> 2000 mg/kg Rat
LC50 (Inhalation):	> 2,2 mg/l/1h Rat

2-(2-BUTOXYETHOXY)ETHANOL

LD50 (Oral):	3384 mg/kg Rat
LD50 (Dermal):	2700 mg/kg Rabbit

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

LC50 (Inhalation):

LD50 (Oral):	> 5000 mg/kg calcolato
LD50 (Dermal):	> 5000 mg/kg calcolato
LC50 (Inhalation):	> 5 mg/l/4h Calcolato

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class



FLEUR DESIGNER'S PAINT SATIN VARNISH

Revision nr. 1
Dated 06/08/2020
Printed 06/07/2022
Page n. 11/17

RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction.

Contains:

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)
1,2-benzisothiazol-3(2H)-one

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

SECTION 12. Ecological information

No specific data are available for this product. Handle it according to good working practices. Avoid littering. Do not contaminate soil and waterways. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation. Please take all the proper measures to reduce harmful effects on aquifers.



FLEUR DESIGNER'S PAINT

SATIN VARNISH

Revision nr. 1
Dated 06/08/2020
Printed 06/07/2022
Page n. 12/17

12.1. Toxicity

1,2-benzisothiazol-3(2H)-one

LC50 - for Fish

1,6 mg/l/96h Oncorhynchus mykiss (OECD 203)

EC50 - for Crustacea

3,27 mg/l/48h Daphnia magna (OECD 202)

EC50 - for Algae / Aquatic Plants

0,11 mg/l/72h Selenastrum capricornutum (OECD201)

EC10 for Algae / Aquatic Plants

0,0403 mg/l/72h Selenastrum capricornutum (OECD201)

Chronic NOEC for Fish

0,21 mg/l Oncorhynchus mykiss (OECD 215)

Chronic NOEC for Crustacea

1,2 mg/l Daphnia Magna (OECD 211)

Chronic NOEC for Algae / Aquatic Plants

0,0403 mg/l

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

LC50 - for Fish

0,22 mg/l/96h Pesce - Oncorhynchus mykiss

EC50 - for Crustacea

0,1 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants

0,0052 mg/l/72h Skeletonema costatum RAC

Chronic NOEC for Fish

0,098 mg/l 28 d oncorhynchus mykiss

Chronic NOEC for Crustacea

0,004 mg/l 21d Daphnia Magna

Chronic NOEC for Algae / Aquatic Plants

0,00064 mg/l 48h Skeletonema costatum rac

diisobutyl esters C4-6

LC50 - for Fish

1,6 mg/l/96h

EC50 - for Crustacea

25 mg/l/48h

EC50 - for Algae / Aquatic Plants

7,9 mg/l/72h

12.2. Persistence and degradability

1,2-benzisothiazol-3(2H)-one

Solubility in water

1,288 mg/l

Rapidly degradable

OECD 302 B Zahn-Wellens Test 90% (fanghi attivi)

AMORPHOUS SILICATE HYDRATE

Solubility in water

0,1 - 100 mg/l

Degradability: information not available

2-(2-BUTOXYETHOXY)ETHANOL

Solubility in water

1000 - 10000 mg/l

Rapidly degradable

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Entirely degradable



FLEUR DESIGNER'S PAINT SATIN VARNISH

Revision nr. 1
Dated 06/08/2020
Printed 06/07/2022
Page n. 13/17

Biodegradabile in impianti di fanghi attivi

12.3. Bioaccumulative potential

1,2-benzisothiazol-3(2H)-one

Partition coefficient: n-octanol/water

0,7 Log Kow OECD 117

BCF

6,95 - Pesce (OECD 305)

AMORPHOUS SILICATE HYDRATE

Partition coefficient: n-octanol/water

0,53

2-(2-BUTOXYETHOXY)ETHANOL

Partition coefficient: n-octanol/water

1

reaction mass of 5-chloro-2-methyl-2H-
isothiazol-3-one and 2-methyl-2H-isothiazol-
3-one (3:1)

Partition coefficient: n-octanol/water

< 0,71 Log Kow

BCF

3,16 - Calculated

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage $\geq$ than 0,1%.

12.6. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.



FLEUR DESIGNER 'S PAINT SATIN VARNISH

Revision nr. 1
Dated 06/08/2020
Printed 06/07/2022
Page n. 14/17

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

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

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product
Point

40



FLEUR DESIGNER'S PAINT SATIN VARNISH

Revision nr. 1
Dated 06/08/2020
Printed 06/07/2022
Page n. 15/17

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage $\geq$ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Information not available

VOC (Directive 2004/42/EC) :

Interior / exterior trim varnishes and woodstains.

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Acute Tox. 2	Acute toxicity, category 2
Acute Tox. 3	Acute toxicity, category 3
Acute Tox. 4	Acute toxicity, category 4
Skin Corr. 1B	Skin corrosion, category 1B
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
Skin Sens. 1	Skin sensitization, category 1
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2



FLEUR DESIGNER'S PAINT

SATIN VARNISH

Revision nr. 1
Dated 06/08/2020
Printed 06/07/2022
Page n. 16/17

Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H310	Fatal in contact with skin.
H330	Fatal if inhaled.
H301	Toxic if swallowed.
H331	Toxic if inhaled.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
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.
H412	Harmful to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.
EUH210	Safety data sheet available on request.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
4. Regulation (EU) 2015/830 of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament



FLEUR DESIGNER'S PAINT SATIN VARNISH

Revision nr. 1
Dated 06/08/2020
Printed 06/07/2022
Page n. 17/17

7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
12. Regulation (EU) 2016/1179 (IX Atp. CLP)
13. Regulation (EU) 2017/776 (X Atp. CLP)
14. Regulation (EU) 2018/669 (XI Atp. CLP)
15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
16. Regulation (EU) 2019/521 (XII Atp. CLP)
17. Regulation (EU) 2019/1148
18. Regulation (EU) 2020/217 (XIV Atp. CLP)

- The Merck Index. - 10th Edition

- Handling Chemical Safety

- INRS - Fiche Toxicologique (toxicological sheet)

- Patty - Industrial Hygiene and Toxicology

- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition

- IFA GESTIS website

- ECHA website

- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in

Section 11. Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.