SAFETY DATA SHEET

according to regulation of Europian parliament and Council (ES) number 1907/2006
according Committee regulation (EU) number 878/2020

Date of Issue:	03. 02. 2022	Version number:	1	No. of pages: 7
Revision date:		Replaces version:	-	
Product name:	**SANATHERM B SILIKON PREVENSIL**			

1. Section 1: Identification of substance/mixture and of the company/undertaking

1.1 Product identifier: **SANATHERM B SILIKON PREVENSIL**

The product is not a nanoform, nor does it contain any nanoforms.

UFI code: not relevant

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

1.2.1 Relevant identified use:

Life cycle phases:	PW (wide use by professionals - basic)	
	C (consumer use)	
Usage Name:	SU0	
Other usage description:	coating material, biocidal product, type 10	
Market description:	PC8; PC9a; PC15	
Contributing Activity Name:	roller or brush application	
	non-industrial spraying techniques	
Contributing activities descriptor:	PROC10	
	PROC11	
More information:	technical function of the product in this use:	coating material, biocidal product, type 10
	quantity to use:	0 - 10 t / yr
	Regulatory status by use:	No
	a limited number of devices for this use:	No
	the subsequent period of use relevant to this use:	24 months
	an overview of environmental release categories for each life cycle stage:	ERC2; ERC8c; ERC8f; ERC10a; ERC11a
	supplied as a mixture	

1.2.2 Uses advised against: all other uses

1.3 Details of the supplier of the safety data sheet:

Producer and supplier:	**AUSTIS a. s.**
Adress:	**K Austisu 680, 154 00 PRAHA 5 - Slivenec**
Telephone number:	**+420 251 099 111**
Fax:	**+420 251 099 112**
e-mail	austis@austis.cz

1.4 Emergency telephone number: +420 251 099 247 +420 725 491 378

Centre of the Toxicologicaly information Na Bojišti 1, 120 00 Prague 2, CZ **Tel.: +420 224 919 293**

2. Section 2: Hazard identification

2.1 Classification of the substance or mixture: The mixture is classified as dangerous.

Classification under Regulation 1272/2008/EU: Skin Sens. 1A; H317
Aquatic Chronic 3; H412

2.2 Label elements

Symbols: **GHS07**

Signal word: **warning**

It contains biocidal active substances:

octhilinone (ISO)	≤ 1,084 g/1 kg of product
terbutryn	≤ 0,867 g/1 kg of product

Read attached instructions before use. Use biocides safely.
Always read the label and product information before use.

Registered at MZDR ČR under the number MZDR 5279/2014/SOZ

Hazard Statement: H317 May cause an allergic skin reaction.
H412: Harmful to aquatic life with long lasting effects.

	Precautionary Statement:	P273: Avoid release to the environment. P280: Wear protective gloves/protective clothing/eye protection/ face protection. P302+P352: IF ON SKIN: Wash with plenty of soap and water. P501: Dispose of contents/container by incineration in an incineration or disposal of hazardous waste in landfills for hazardous waste.
2.3	Other hazards:	The mixture does not meet criteria to be classified as PBT or vPvB substances. The mixture is not endocrine disruptor, nor does it contain any.
	Other risks:	EUH208: It contains a reaction mixtue: CMIT/MIT (3:1) [Index number: 613-167-00-5]. May cause an allergic reaction. EUH210: A safety data sheet is available on request. EUH211: Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

3. Section 3: Composition / information on ingredients

A mixture of an aqueous dispersion of acrylic resins, pigments, fillers and additives.

3.2 Mixtures

Chemical name:	**Titanium dioxide**	**octhilinone (ISO)**
Content [%]:	0 - 25	≤ 0,01084
Index number:	022-006-00-2	613-112-00-5
CAS:	13463-67-7	26530-20-1
EC number (EINECS):	236-675-5	247-761-7
REACH Registration number:	01-2119489379-17-0XXX	Not Assigned
Classification according to Directive 1272/2008/EU:	Carc. 2; H351 (inhalation)	Acute Tox. 2; H330 Acute Tox. 3; H311 Acute Tox. 3; H301 Skin Corr. 1; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410
Specific concentration limits, M-factors:	Not Assigned	inhalační: ATE = 0,27 mg/l (prach nebo mlha) dermální: ATE = 311 mg/kg TH orální: ATE = 125 mg/kg TH Skin Sens. 1 A; H317: C ≥ 0,0015 % M = 100 M = 100
	Note 10: The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter ≤ 10 µm.	

Chemical name:	**Terbutryn**	**Mixture CMIT/MIT (3:1)**
Content [%]:	≤ 0,00867	< 0,0015
Index number:	Not Assigned	613-167-00-5
CAS:	886-50-0	55965-84-9
EC number (EINECS):	212-950-5	Not Assigned
REACH Registration number:	Not Assigned	Not Assigned
Classification according to Directive 1272/2008/EU:	Acute Tox. 4; H302 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	Acute Tox. 2; H330 Acute Tox. 2; H310 Acute Tox. 3; H301 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410

Specific concentration limits, M-factors:

Skin Sens. 1; H317: C ≥ 3 %
M = 100 (Acute)
M = 100 (Chronic)
Aquatic Acute 1; H400: C ≥ 0,25 %
Aquatic Chronic 1; H410: C ≥ 0,25 %
Aquatic Chronic 2; H411: 0,025 % ≤ C < 0,25 %
Aquatic Chronic 3; H412: 0,0025 % ≤ C < 0,025 %
Skin Corr. 1B; H314: C ≥ 0,6 %
Eye Dam. 1; H318: C ≥ 0,6 %
Skin Irrit. 2; H315: 0,06 % ≤ C < 0,6 %
Eye Irrit. 2; H319: 0,06 % ≤ C < 0,6 %
Skin Sens. 1A; H317: C ≥ 0,0015 %
M = 100 (acute)
M = 100 (chronic)

Full text of H - phrases in Section 16

4. Section 4: First aid measures

4.1 Description of first aid measures

When providing first aid it is necessary to ensure safety of both victim and person rescuing. It is necessary to avoid chaotic behavior. Victim must be kept in mental and physical rest. Victim must be kept warm and must not get chilled. Take original container with label or safety data sheet with information about substance or mixture with you in case of medical examination.

Inhalation: Break exposure, move to fresh air protecting the victim from cold. Provide medical treatment especially if coughing, shortness of breath or other symptoms persist.

When on skin: Put away contaminated clothes and shoes, wash the contaminated spot with plenty of tepid water; if the skin is not irritated, soap can be used; seek doctor's advice, especially if the skin stays irritated.

Eye Contact: Rinse eyes with plenty of water (10 to 15 min). Keep eyes open (even by force if necessary). If the victim is wearing contact lenses remove them immediately. Seek medical attention.

Ingestion: Do not induce vomiting! Drink at least 0.5 liters of water with 5 to 10 tablets of crushed charcoal. In case of nausea contact the Toxicology Information Centre for need of medical treatment with information about composition of the mixture from the original container or SDS.

4.2 Most important symptoms and effects, both acute and delayed

The product may have adverse effects through inhalation and if swallowed. It can irritate skin, mucous membranes and eyes.

4.3 Indication of any immediate medical attention and special treatment needed: Symptomatic treatment

5. Section 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media: The product is not inflammable. Water spray (water mist), foam, carbon dioxide, dry powder.

Unsuitable extinguishing media: The strong water current. It can be spread fire.

5.2 Specific danger linked to the substance or mixture: Carbon monoxide and dioxide and carbon black can be produced while burning.

5.3 Advice for firefighters: wear a breathing apparatus and protective clothing.

6. Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures: Appropriate protective gloves, goggles, appropriate clothing, or respirator.

6.1.1 For workers except for those intervening in emergency cases - instructions in case of accidental spill and leak of substance or mixture:

a) use of appropriate protection (including personal protective equipment according to part 8 BL), in order to avoid any skin, eyes or personal clothing contamination;

b) removing possible sources of ignition, providing proper ventilation, control of dust - not relevant

c) emergency measures, for example necessary evacuation from dangerous area or consultation with an expert - not relevant

6.1.2 For workers intervening in emergency cases - instructions for appropriate materials of personal protective suits (see part 8 BL)

6.2 Environmental precautions: Prevent environmental pollution - leakage into drains, surface water, groundwater or soil.

6.3 Methods and materials for limitation of leaks and for cleaning:

6.3.1 Instructions for leak limitation of spilled substance or mixture

a) enclose the spilled mixture, cover the canalization;

b) seal the damaged package

6.3.2 Instructions for removal of spilled substance or mixture

Absorb with appropriate agent, hand over to authorized person for disposal.

6.4 Reference to other sections: See also section 7., 8 and 13.

7. Section 7: Handling and storage

7.1 Measures for safe manipulation:

7.1.1 Recomendations:

a) Workers handeling the product have to get familiar with health and safety rules for work and have to obey these rules. Secure escape routs (enclosing of leaked mixture, sealing of demaged packages and so on), for fire prevention (remove ignition sources, non-sparkling tools and so on) andlimit the production of aerosol and dust.

b) Obey measures for prevention of manipulation with incompatible substances or mixtures (see part 10) in common areas.

c) Store in original closed packages in temperature from +5 to +25 °C, do not expose to temperature under 0 °C (not even in short term). Do not expose to direct sunlight or other heat sources.

d) Prevent the contamination of environment, i.e. leak into canalization, surface or underground water and soil.

7.1.2 Instructions for general hygiene of work:

a) Do not eat, drink or smoke on work areas.

b) After working with product wash your hands with soap and water, eventualy use regeneration hand cream.

c) Before entering dining areas, remove contaminated clothing and protective equipment.

7.2 Conditions for safe storage of substances and mixtures including incompatible substances and mixtures: Store in dry and well-ventilated storages in original closed packages in temperatures from +5 to +25 °C, do not expose to temperature under 0 °C (not even in short term). Do not expose to direct sunlight or other heat sources. Prevent any contact with oxidazing substances, strong acids and bases. Do not store with food, drinks and feed. The product is not a flamable liquid according to ČSN 65 0201.

7.3 Specific end use: see part 1.2; coating procedure and recomendations are listed in technical list of the product, or in other product documentation.

8. Section 8: Exposure controls / personal protection

8.1 Control parameters:

Exposure limits EH40/2005 (WELs):	Not Assigned

8.2 Exposure controls

Ensure adequate ventilation. Ensure protective equipment is worn while working with the product. Contaminated work clothes can be reused after thorough cleaning. Wash your hands and face with soap and water after use. Do not eat, drink or smoke while working with the product.

8.2.1 Appropriate engineering controls: Observe the usual precautions to protect the health and well-ventilated.

8.2.2 Individual protection measures, such as personal protective equipment:

Occupational exposure is governed by Directive 89/686/EEC therefore any use of personal protective equipment must be in accordance with this Regulation.

a) Eyes and face protection: Suitable safety goggles (EN 166), face shiled.

b) Skin protection: Common safety clothing with long sleave and shoes; take of the contaminated clothing and wash your skin with soap and water.

b-1) Hands protection: suitable protective gloves (made from rubber - according to EN 374), wash your hands with soap and water after work,

c) Airways protection: with proper area ventilation not required. When spraying, face half-shiled is recomended for gass filtration (EN 405) or quarter-shiled with gass filter (EN 140, EN 141).

d) Heat hazard: Special attention must be paid to construction of personal protective measures, when specifying protective measures for protection against materials, which are considered to be heat hazard. Not relevant for this product.

8.2.3 Environmental exposure controls: Avoid infiltration of surface and groundwater and soil.

9. Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

a) State	viscous liquid
b) Color	color shown on the cover
c) Odour:	characteristic
Odor threshold:	Not specified
d) Melting/Freezing point (temperature range) (°C):	approximately 0
e) Boiling point or initial boiling point and boiling range (°C)	approximately 100
f) Combustibility:	non-flammable liquid
g) Explosion limints: upper limit (% volume):	Not specified
lower limit (% volume):	Not specified
h) Point of ignition:	Not specified
i) Temperature of self-ignition:	Not specified
j) Temperature of decomposition (°C):	Not specified
k) pH (23 °C)	9,0 - 11,0
l) Kinematic viscosity:	Not specified
m) Solubility (23 °C)	
- with water:	unlimited miscibility
- with fats:	Not specified
n) Partition coefficient n - octanol/water:	Not specified
o) Steam pressure (20 °C):	2,3 kPa
p) Density and/or relative density (20 °C):	approximately 1,45 g.cm^{-3}
q) Relative viscosity of steam (at °C):	Not specified
r) Particles characteristics:	Not specified

9.2 Other information:

9.2.1 Information about class of physical hazard:	is not relevant
9.2.2 Other safety characteristics	
Evaporation rate:	Not specified
Dynamic viscosity:	Not specified
Explosive properties:	Not specified
Oxidizing properties:	Not specified
VOC (g/L):	20,5
Time required for biocidal effect:	min. 24 hours after the last layer is applied

10. Section 10: Stability and reactivity

Product is stable under recommended storage and handling conditions.

10.1 Reactivity: Product is not reactive under recommended storage and handling conditions.

10.2 Chemical stability: Product is stable under recommended storage and handling conditions.

10.3 Possibility of hazardous reactions: In case of contact with substances reacting dangerously with water.

10.4 Conditions to avoid: Temperatures below 0 °C and above 100 °C cause degradation of the product. Temperatures above recommended storage temperature reduce life of the product.

10.5 Incompatible materials: Substances reacting with water.

10.6 Hazardous Decomposition Products: Carbon monoxide and dioxide and carbon black may form during burning.

11. Section 11: Toxicological information

11.1 Information about hazard classes acording to (ES) č. 1272/2008

a) acute toxicity:	the classification cirteria are not met based on avilable information
- LD_{50}, oral, rat ($mg.kg^{-1}$):	the classification cirteria are not met based on avilable information
- LD_{50}, dermal, rat or rabbit ($mg.kg^{-1}$):	the classification cirteria are not met based on avilable information
- LC_{50}, inhalation, rat, for aerosols or particles ($mg.kg^{-1}$):	the classification cirteria are not met based on avilable information
- LC_{50}, inhalation, rat, for gases and vapours ($mg.kg^{-1}$):	the classification cirteria are not met based on avilable information
b) corrosivity/skin irritation:	the classification cirteria are not met based on avilable information
c) serious eye damage / eyes irritation:	the classification cirteria are not met based on avilable information
d) sensitivity of airways / sensitivity of skin:	the classification cirteria are not met based on avilable information
e) germ cells mutagenicity:	the classification cirteria are not met based on avilable information
f) carcinogenicity:	the classification cirteria are not met based on avilable information
g) toxicity for reproduction:	the classification cirteria are not met based on avilable information
h) toxicity for specific organs - single exposure:	the classification cirteria are not met based on avilable information
i) toxicity for specific organs - multiple exposures:	the classification cirteria are not met based on avilable information
j) hazards while inhaled:	the classification cirteria are not met based on avilable information
Human experience:	No detrimental effects were found upon compliance with the prescribed safety measures.
Tests on animals:	Were not performed
11.1.1 Information for each hazard class or breakdown:	see above
11.1.2 Toxicological properties of mixture	not avilable
11.1.3 If enough information from substance/mixture trials exist, it might be necessary to sum up results of used studies, for example according to exposure run	not relevant
11.1.4 If the classification criteria are not met for specific hazard class, information explaining the justification should be stated.	relevant concentration limits were not exceeded
11.1.5 Information about likely exposure run	no effects on human health are known
11.1.6 Symptoms corresponding to physical, chemical and toxicological features	no effects on human health are known
11.1.7 Belated and immediate effects and chronical effects of short/long term exposure	no effects on human health are known
11.1.8 Interactive effects	unknown
11.1.9 Lack of specific data	not relevant
11.1.10 Mixtures	see part 8
11.1.11 Mixtures information compared to substance information	

1) Substances in the mixture can react with each other inside of a body and can cause different levels of absorption, metabolism and secretion.

2) It is necessary to consider, if concentration of each substance is sufficient to contributeto mixture´s effects on health. For each substance

a) if the information are doubled, they are listed only once for a substance as a whole, for example when two different substances are causing vomiting and diarrhea;	Not relevant for this mixture.
b) if it is not likely the effects will appear with current concentrations, for example when weak irritating substance is disolved in non-irritating solution to a level under certain concentration;	Not relevant for this mixture.
c) if the information about mutual effects of substances in the mixture are unavilable, no assumptions will be listed and instead effects on healtf of each substance will be listed.	see part 8
11.1.12 Other information	None
11.2 Other hazards information	
11.2.1 Features causing disruption of endocrinal systém	Not relevant for this mixture.
11.2.2 Additional data:	None

12. Section 12: Ecological information

12.1 Toxicity — Harmful to aquatic life with long lasting effects.

Acute toxicity for water organisms:	**Terbutryn**	**Octhilinone (ISO)**

	- LC_{50}, 96 hours, fish (mg/kg):	1,8	0,03
	- LC_{50}, 48 hours, fish (mg/kg):	7,1	0,42
	- IC_{50}, 72 hours, algae (mg/kg):	0,0055	0,084
12.2	Persistence and degradability:	Not set	
12.3	Bioaccumulative potential:	Not set	
12.4	Mobility in soil:	It was not determined, the blend is miscible with water.	
12.5	Results of PBT and vPvB	The mixture does not meet the criteria for classification as PBT or vPvB.	
12.6	Features causing disruption of endocrinal systém	Unknown for this mixture	
12.7	Other adverse effects:	See Section 2	
	Additional data:	The product must not leak to surface and groundwater. Notify competent authorities immediately in case of accident.	

13. Section 13: Disposal considerations

13.1 Methods of waste management:

a) Appropriate methods of substance, mixture and contaminated packaging disposal: Product remnants and packaging with product remnants must be incinerated in a hazardous waste incinerator or kept at a hazardous waste landfill.

b) Physical / chemical properties that can affect means of waste handling: Liquid mixture is completely miscible with water.

c) Avoidance of disposal through sewer: It is necessary to prevent leakage of both components and hardened mixture into drains.

d) Special precautions for the recommended waste management: Avoid contact with skin and eyes.

14. Section 14: Transport information

14.1	UN number or ID number	Not specified
	Required shipping label:	
	ADR/RID/ADN:	Not specified
	IMDG:	Not specified
	ICAO TI:	Not specified
14.2	Proper name of the United Nations for the shipment	
	Ground transport ADR/RID/ADN:	Not specified
	Naval transport IMDG:	Not specified
	Air transport ICAO TI:	Not specified
14.3	Transport hazard class(es):	
	ADR/RID/ADN:	Not specified
	IMDG:	Not specified
	ICAO TI:	Not specified
14.4	Packing group:	
	ADR/RID/ADN:	Not specified
	IMDG:	Not specified
	ICAO TI:	Not specified
14.5	Environmental hazards:	Not specified
14.6	Special precautions for user:	See Section 8
	Special provisions (ADR):	Not specified
14.7	Naval mass-transport according to instrumenst IMO:	Not applicable
	Notes:	None
	Additional data:	None

15. Section 15: Regulatory information

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

Regulation of the European Parliament and Council Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals establishing a European Chemicals Agency, as amended

Regulation of the European Parliament and Council Regulation (EC) No 1272/2008 (CLP) as amended

Commision directive (EU) No. 878/2020

Regulation (EU) No. 528/2012 of the European Parliament and of the Council concerning the making available on the market and use of biocidal products. Note: According to Article 69 (2) letter (i) the following sentence must be stated: "**Read attached instructions before use.**" According to Article 72 (1) the following sentence must be stated: "**Use biocides safely. Always read the label and product information before use.**"

EH40/2005 Workplace exposure limits (second edition, published 2011). Containing the list of workplace exposure limits for use with the Control of Substances Hazardous to Health Regulations (as amended)

15.2 Assessment chemical safety of mixture: Were not performed

16. Section 16: Other informations

Information stated in this safety data sheet is based on the current knowledge of EU legislation. It is recommendation in terms of health and safety as well as recommendation related to ecological matters that are essential to safe usage of the product.

a) New edition.

b) key or legend for abbreviations and accronyms used in the safety data sheet:

LD_{50} The lethal dose for 50 % mortality of the test population relative to a control sample.
LC_{50} Lethal concentration for 50 % mortality of the test population relative to a control sample.
EC_{50} Effective concentration for 50 % mortality of the test population relative to a control sample.
EC_{10} Effective concentration for 10 % mortality of the test population relative to a control sample.
IC_{50} Inhibitory concentration to reduce the growth or growth rate of 50% of the test population relative to a control sample.
LL_{50} Lethal loading doses of test substance resulting in 50% mortality
EL_{50} Effective loading doses of test substance resulting in 50% mortality
PBT Persistent, bioaccumulative and toxic substances.
vPvB Very persistent and very bioaccumulative substances.
DNEL Derived No Effect Level - derived concentration of the substance without adverse effects
DMEL Derived Minimum Effect Level - derived minimum level at which the adverse effects
NOAEL No Observed Adverse Effect Level - no negative effect was observed
PNEC Predicted No Effect Concentration - an estimate of the concentration of the substance without adverse effects
NOELR No Observed Effect Loading Rate - dosage rate without observed effect
NOEC No Observed Effect Concentration - concentration without observed effect
NOEL No Observed Effect Level - level without observed effect
LOEC Lowest Observed Effect Concentration - lowest concentrations with observable effects
ADR European Agreement concerning the international carriage of dangerous goods by road.
RID Regulations concerning the international carriage of dangerous goods by rail.
IMDG International maritime code of dangerous goods.
ICAO The International Civil Aviation Organization.
IATA International Air Transport Association.
GHS Globally Harmonized System of Classification and Labelling of Chemical substances.

c) important references to literature and data sources
Initial data sources are safety data sheets of the inherent (components).

d) in case of mixture, statement about evaluation method used for classification according to article 9 of directive (ES) number 1272/2008

For evaluation purposes, principles of extrapolation were used. Calculation methods.

e) List of H-sentences, whose full form is not listed in other parts.

H301 Toxic if swallowed.
H302 Harmful if swallowed.
H310 Smrteľný pri kontakte s pokožkou.
H311 Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Spôsobuje vážne poškodenie očí.
H319 Spôsobuje vážne podráždenie očí.
H330 Smrteľný pri vdýchnutí.
H351 Suspected of causing cancer (inhalation).
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

Guidelines for training:
As required by national legislation.

Recommended restrictions on use (i. e. non-statutory recommendations by supplier):
Product should not be used for other purposes than specified (see section 1.2). Because specific conditions of use are beyond supplier's control it is responsibility of the user to adapt notifications to local law and regulations. Safety information describe the product with regard to safety and can not be considered technical information about the product.