

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 11/2/2017 Supersedes: All previous versions Version: 1.1

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

: Mixture

Product identifier 1.1.

: Sentinel 24-7 Zero HVAC Off-White Mold & Mildew Resistant Coating with Antimicrobial **Product Protection**

Product form

Product name

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

Uses of the substance/Mixture

: Antimicrobial coating for use in HVAC ductwork

Details of the supplier of the safety data sheet 1.3.

Sentinel Products Inc. 8901 Wyoming Avenue North Brooklyn Park, MN 55445 Phone: (763) 571-0630 Toll-free: (800)-373-0633 www.senpro.com

Emergency telephone number 1.4.

Emergency number

: 1-866-359-5661

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

Eye Irritation 2A H319 Skin Sensitization 1 H317 Carcinogenicity 2 H351 Reproductive Toxicity 2 H361

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)	
Signal word (GHS-US)	GHS07 GHS08
Hazard statements (GHS-US)	 Warning H319 - Causes serious eye irritation.
	H317 - May cause an allergic skin reaction. H351 - Suspected of causing cancer.
Precautionary statements (GHS-US)	 H361 - Suspected of damaging fertility or the unborn child. P261 - Avoid breathing spray. P264 - Wash hands thoroughly after handling. P280 - Wear protective gloves and eye protection/face protection. P272 - Contaminated work clothing should not be allowed out of the workplace. P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear eye protection, protective clothing, protective gloves, face protection. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. P337+P313 - If eye irritation persists: Get medical advice/attention. P302+P352 - IF ON SKIN: Wash with plenty of soap and water. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P308+P313 - If exposed or concerned: Get medical advice. P405 - Store locked up. P501 - Dispose of contents/container to licensed waste handling facility.
2.3. Other hazards	

Other ha

No additional information available

Unknown acute toxicity (GHS-US) 2.4.

Percentage of mixture consisting of ingredient(s) of unknown acute toxicity: 1.5%

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SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%
Titanium dioxide	(CAS No) 13463-67-7	10 - 30
Diethylene glycol monobutyl ether, Glycol ether DB, Butyl carbitol, Butyl diglycol, 2-(2-Butoxyethoxy) ethanol	(CAS No) 112-34-5	Proprietary*
Biocide	(CAS No) Mixture	Proprietary*
Zinc pyrithione, Zinc pyridinethione	(CAS No) 13463-41-7	Proprietary*

*The specific chemical identity and exact percentage of composition has been withheld as a trade secret

SECTION 4: First aid measures	
4.1. Description of first aid measure	25
First-aid measures general	: If exposed or concerned, get medical attention/advice. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.
First-aid measures after inhalation	: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if breathing is affected. If breathing is difficult, supply oxygen.
First-aid measures after skin contact	: IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes. If irritation develops or persists, get medical attention.
First-aid measures after eye contact	 IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. If pain, blinking, or irritation develops or persists, get medical attention. Continue rinsing.
First-aid measures after ingestion	: IF SWALLOWED: Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center or medical professional. Seek medical attention.
4.2. Most important symptoms and	effects, both acute and delayed
Symptoms/injuries after inhalation	: May cause respiratory irritation.
Symptoms/injuries after skin contact	: May cause skin irritation.
Symptoms/injuries after eye contact	: Direct contact with the eyes is likely to be irritating.
Symptoms/injuries after ingestion	: May cause gastrointestinal irritation.
4.3. Indication of any immediate me	dical attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measure	es
5.1. Extinguishing media	
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide.
Unsuitable extinguishing media	: Water may be unsuitable as an extinguishing media, but helpful in keeping adjacent containers cool.
5.2. Special hazards arising from th	e substance or mixture
Fire hazard	: Not determined.
Explosion hazard	: Not determined.
Reactivity	: No data available.
5.3. Advice for firefighters	
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Do not dispose of fire-fighting water in the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release n	neasures
6.1. Personal precautions, protectiv	e equipment and emergency procedures
6.1. Personal precautions, protective General measures	 re equipment and emergency procedures No specific emergency measures are required other than good laboratory hygiene and safety practices.
	: No specific emergency measures are required other than good laboratory hygiene and safety
General measures	: No specific emergency measures are required other than good laboratory hygiene and safety

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6.1.2.	For emergency responders	
Protectiv	/e equipment	: Wear suitable protective clothing, gloves and eye or face protection. Approved supplied-air respirator, in case of emergency.
6.2.	Environmental precautions	
Avoid re	Avoid release to the environment. Keep out of sewer, streams, lakes, and other groundwaters.	
6.3. Methods and material for containment and cleaning up		
For cont	ainment	: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Methods	for cleaning up	: Solidify spills with inert solids, such as clay, vermiculite or diatomaceous earth as soon as possible. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).
6.4.	Reference to other sections	
N 1 1 11		

No additional information available

SECTION 7: Handling and storage		age
7.1.	Precautions for safe handling	l
Precau	utions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Keep container closed when not in use.
7.2.	7.2. Conditions for safe storage, including any incompatibilities	
Techni	ical measures	: Does not require any specific or particular technical measures.
Storag	e conditions	: Store in dry, well-ventilated area. Keep container tightly closed in original container protected from sunlight. Keep from freezing. Store locked up.

7.3. Specific end use(s)

No additional information available

SECTI	SECTION 8: Exposure controls/personal protection	

8.1. Control parameters

Titanium Dioxide (13463-67-7)	
Remark (ACGIH)	TWA - 10 mg/m ³
Remark (US OSHA)	PEL - 15 mg/m ³

Diethylene glycol monobutyl ether (112-34-5)	
Remark (ACGIH)	TWA - 10 ppm inhalable fraction and vapor

8.2. Exposure controls

Appropriate engineering controls

Personal protective equipment

- Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Ensure adequate ventilation, especially in confined areas.
 Gloves. Wear protective clothing. Protective goggles.

Hand protection

: Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. . Suitable gloves for this specific application can be recommended by the glove supplier.

Eye protection	: Use eye protection suitable to the environment. Avoid direct contact with eyes.
Skin and body protection	: Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure.
Respiratory protection	 Where vapor, mist, or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

: Off white, dries off white.

Color

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Odor	: Slight latex
Odor Threshold	: No data available
pH	: 8.7
Relative evaporation rate (butylacetate=1)	: <1, water
Melting point	: No data available
Freezing point	: 0 °C (32 °F)
Boiling point	: 100 °C (212 °F)
Flash point	: > 93 °C (calculated)
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 1.2
Solubility	: No data available
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: 95 KU
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

44:+: nal information available No

	No additional information available		
	SECTION	ON 10: Stability and reactivity	
	10.1.	Reactivity	
	No data available.		
	10.2.	Chemical stability	
Stable under recommended handling and storage conditions (see section 7).			
	10.3.	Possibility of hazardous reactions	
	None known.		
	10.4.	Conditions to avoid	

Excessive heat which may cause the closed container to rupture. Excessive cold which may cause the closed container to rupture.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

Thermal decomposition may yield monomers, carbon monoxide, carbon dioxide, nitrogen oxides (NOx), and Sulphur Dioxide (SO2).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified - Based on ingredients and their concentrations in the product, the product is not classified as acutely toxic.
Skin corrosion/irritation	: Not classified - Based on ingredients and their concentrations in the product, the product is not classified for skin irritation.
Serious eye damage/irritation	: No data for the mixture. Based on ingredients and their concentrations in the product, the product is classified as Category 2A: causes serious eye irritation.
Respiratory or skin sensitisation	No data for the mixture. Based on ingredients and their concentrations in the product, the product is classified as 1: may cause an allergic skin reaction.
Germ cell mutagenicity	 Not classified - Based on ingredients and their concentrations in the product, the product is not classified for germ cell mutagenicity.
Carcinogenicity	: No data for the mixture. Based on ingredients and their concentrations in the product, the product is classified as Category 2: Suspected of causing cancer.
	IARC: Titanium Dioxide: Group 2B: possibly carcinogenic to humans.

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SECTION 12: Ecological information

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Reproductive toxicity	No data for the mixture. Based on ingredients and their concentrations in the product, the product is classified as Category 2: Suspected of damaging fertility or the unborn child.	
Specific target organ toxicity (single exposure)	Not classified - Based on ingredients and their concentrations in the product, the product is classified for STOT - single exposure.	s not
Specific target organ toxicity (repeated exposure)	Not classified - Based on ingredients and their concentrations in the product, the product is classified for STOT - repeated exposure.	s not
Aspiration hazard	No data for the mixture. Based on ingredients and their concentrations in the product, and viscosity of the product, the product is not classified as an aspiration hazard.	the
Symptoms/injuries after inhalation	No data for the mixture.	
Symptoms/injuries after skin contact	No data for the mixture.	
Symptoms/injuries after eye contact	No data for the mixture. Based on ingredients and their concentrations in the product, the product causes serious eye irritation.	
Symptoms/injuries after ingestion	No data for the mixture.	

Additional information: No data is available for the mixture. The information shown is based on the profiles of the ingredients and their concentrations in the product.

12.1.	Toxicity				
Ecology	- general	: Aquatic toxicity rating not determined. All possible measures should be taken to prevent release into the environment.			
12.2.	Persistence and degradability				
Sentir	Sentinel 24-7 Zero HVAC Off-White Mold & Mildew Resistant Coating				
Persis	tence and degradability	Not established.			
12.3.	Bioaccumulative potential				
No addi	tional information available				
12.4.	Mobility in soil				
No addi	tional information available				
12.5.	Other adverse effects				
	tional information available				
0507		-			
	ION 13: Disposal consideration	S			
13.1.	Waste treatment methods				
	reatment methods	: Do not dump in any sewers, on the ground or into any body of water.			
Waste o	lisposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.			
SECT	SECTION 14: Transport information				
In acco	dance with DOT				
Not haz	ardous for transport				
Additio	nal information				
Other in	formation	: No supplementary information available.			
Transp	ort by sea				
No addi	tional information available				
Air tran	sport				
No addi	tional information available				
SECT	SECTION 15: Regulatory information				
	, ,				

15.1. US Federal regulations

Sentinel 24-7 Zero HVAC Off-White Mold & Mildew Resistant Coating

All chemical substances in this product are listed in the EPA (Environment Protection Agency) TSCA (Toxic Substances Control Act) Inventory

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 313: Zinc compounds, Diethylene glycol monobutyl ether.

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15.2. International regulations

CANADA

No additional information available.

15.3. US State regulations

Component	CAS #	State
Titanium Dioxide	13463-67-7	New Jersey, Pennsylvania, Rhode Island
Zinc oxide fume	1314-13-2	Massachusetts
Zinc compounds; zinc oxide	13463-41-7, 1314-13-2	New Jersey, Pennsylvania

California Proposition 65: WARNING! This product contains chemicals known to the state of California to cause cancer, birth defects, or other reproductive harm.

SECTION 16: Other informat	ion
Indication of changes	: Revision 1.1: - 2 November 2017
	:
Other information	: Author: KAD
NFPA health hazard	• 1. Evenours could cause initation but only minor residual
NFFA Health hazaru	: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.
NFPA fire hazard	: 0 - Materials that will not burn.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III Rating	
Health	: 1
Flammability	: 0
Physical	: 0
Personal Protection	:

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