

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 1/12/2016 Supersedes: All previous versions Version: 1.0

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

1.1. Product identifier

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

Product Protection

Product form : Mixture

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

Uses of the substance/Mixture : Antimicrobial coating for use in HVAC ductwork

1.3. Details of the supplier of the safety data sheet

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

1.4. Emergency telephone number

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)



GHS07 GHS08

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H319 - Causes serious eye irritation.

H317 - May cause an allergic skin reaction.

H351 - Suspected of causing cancer.

H361 - Suspected of damaging fertility or the unborn child.

Precautionary statements (GHS-US) : 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.

P363 - Wash contaminted clothing before reuse.

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

No additional information available

2.4. Unknown acute toxicity (GHS-US)

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

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SECTION 3: Composition/information on ingredients

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 measures

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

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get First-aid measures after inhalation

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.

42 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 medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

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

5.2. Special hazards arising from the substance or mixture

Fire hazard : Not determined : Not determined. Explosion hazard : No data available. Reactivity

Advice for firefighters 5.3.

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 measures

Personal precautions, protective equipment and emergency procedures

General measures : No specific emergency measures are required other than good laboratory hygiene and safety

practices.

6.1.1. For non-emergency personnel

Protective equipment : Wear Protective equipment as described in Section 8.

Emergency procedures : Evacuate unnecessary personnel.

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6.1.2. For emergency responders

Protective equipment

: Wear suitable protective clothing, gloves and eye or face protection. Approved supplied-air respirator, in case of emergency.

6.2. **Environmental precautions**

Avoid release to the environment. Keep out of sewer, streams, lakes, and other groundwaters.

Methods and material for containment and cleaning up

For containment

Contain any spills with dikes or absorbents to prevent migration and entry into sewers or

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).

Reference to other sections

No additional information available

SECTION 7: Handling and storage

Precautions for safe handling

Precautions 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. Conditions for safe storage, including any incompatibilities

Technical measures

: Does not require any specific or particular technical measures.

Storage 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

SECTION 8: Exposure controls/personal protection

Control parameters 8.1.

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

2-Butoxyethanol (111-76-2)		
Remark (US OSHA)	TWA - 50 ppm, 240 mg/m ³	
Remark (NIOSH)	IDLH - 700 ppm	
Remark (ACGIH)	TWA - 200 ppm	

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

Eye protection

: Use eye protection suitable to the environment. Avoid direct contact with eyes.

Skin and body protection Respiratory protection

: Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure.

Where vapor, mist, or dust exceed PELs or other applicable OELs, use NIOSH-approved

respiratory protective equipment.

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SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state : Liquid

Color : Off white, dries off white.

Odor : Slight latex Odor Threshold : No data available

. 87 Relative evaporation rate (butylacetate=1) : <1, water

: No data available Melting point : 0 °C (32 °F) Freezing point **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

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

Other information

No additional information available

SECTION 10: Stability and reactivity

Reactivity 10.1.

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.

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Hazardous decomposition products 10.6.

Thermal decomposition may yield monomers, carbon monoxide, carbon dioxide, nitrogen oxides (NO_x), 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.

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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.

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 not

classified for STOT - single exposure.

Specific target organ toxicity (repeated

exposure)

: Not classified - Based on ingredients and their concentrations in the product, the product is not

classified for STOT - repeated exposure.

Aspiration hazard : No data for the mixture. Based on ingredients and their concentrations in the product, and the

viscosity of the product, the product is not classified as an aspiration hazard.

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.

SECTION 12: Ecological information

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

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

Persistence and degradability Not established

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Do not dump in any sewers, on the ground or into any body of water.

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

In accordance with DOT Not hazardous for transport

Additional information

Other information : No supplementary information available.

Transport by sea

No additional information available

Air transport

No additional information available

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, 2-Butoxyethanol.

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15.2. International regulations

CANADA

No additional information available.

15.3. US State regulations

Component	CAS#	State
2-Butoxyethanol	111-76-2	New Jersey, Pennsylvania, Massachusetts
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 information

Indication of changes : Revision 1.0: - 12 January 2016 - New SDS Created.

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Other information : Author: KAD

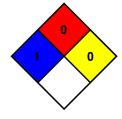
NFPA health hazard : 1 - Exposure could cause irritation but only minor residual

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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