ProSil Finish

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Issue date: 12/20/2023 Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Trade name : ProSil Finish

1.2. Recommended use and restrictions on use

Recommended use : Waterproofing agent
Restrictions on use : All other uses not recommended above

1.3. Supplier

Fluid Applied Roofing
830 Space Drive
Beavercreek, Ohio 45434
T 855.860.2300
Info@fluidappliedroofing.com

1.4. Emergency telephone number

Emergency number : For Hazardous Materials or Dangerous Goods Incident Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night: 1-800-424-9300 (Toll Free, USA) / 703-527-3887 (Virgina, USA)
CCN 1014222

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Serious eye damage/eye irritation Category 2 — Causes serious eye irritation
Skin sensitization, Category 1 — May cause an allergic skin reaction
Carcinogenicity Category 2 — Suspected of causing cancer
Reproductive toxicity Category 2 — Suspected of damaging fertility or the unborn child
Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :

Signal word (GHS US) : Warning
Hazard statements (GHS US) : May cause an allergic skin reaction
Causes serious eye irritation
Suspected of causing cancer
Suspected of damaging fertility or the unborn child
Precautionary statements (GHS US) : Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Avoid breathing mist, spray, vapors, gas.
Wash hands, forearms and face thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.

If on skin: Wash with plenty of water.
If skin irritation or rash occurs: Get medical advice/attention.
Wash contaminated clothing before reuse.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
If exposed or concerned: Get medical advice/attention.
Store locked up.
Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

5% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)
21% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)
20% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
Titanium dioxide	CAS-No.: 13463-67-7	5 – 10	Carc. 2, H351
2-Butanone,O,O', O"-(Methylsilylidyne)Trioxime	CAS-No.: 22984-54-9	1 – 5	Flam. Liq. 4, H227 Eye Irrit. 2A, H319 Skin Sens. 1B, H317
Octamethyl Cyclotetrasiloxane	CAS-No.: 556-67-2	1 – 5	Repr. 2, H361 Aquatic Chronic 1, H410
N-(3-(Trimethoxysilyl)-1,2-ethanediamine	CAS-No.: 1760-24-3	0.1 – 1	Acute Tox. 4 (Inhalation:dust,mist), H332 Eye Dam. 1, H318 Skin Sens. 1B, H317

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : IF exposed or concerned: Get medical advice/attention. First aider: Pay attention to self-protection. Never give anything by mouth to an unconscious person. Give artificial respiration if necessary. Induce artificial respiration with mask fitted with one-way valve or other suitable device but not mouth-to-mouth.

First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If the victim is unconscious : Lay in a stable manner on victim's side. Induce artificial respiration with mask fitted with one-way valve or other suitable device; not mouth-to-mouth. Call a physician immediately.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth and spit the fluids out. Drink plenty of water. Do NOT induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation : Inhalation may cause irritation (cough, short breathing, difficulty in breathing).

Symptoms/effects after skin contact : May cause an allergic skin reaction.

Symptoms/effects after eye contact : Direct contact with the eyes is likely to be irritating. Stinging, redness, itching, tears, blurred vision, swelling.

Symptoms/effects after ingestion : Gastrointestinal disturbances.

Most Important Symptoms/Effects : Irritation to eyes, skin and respiratory tract. May cause an allergic skin reaction.

Chronic symptoms : Suspected of damaging the unborn child. Suspected carcinogen.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Dry chemical, CO2, or water spray or regular foam.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Fire hazard : No fire hazard.

Hazardous decomposition products in case of fire : Carbon dioxide. Toxic fumes may be released. Carbon monoxide. Silicon oxides.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Fight fire from safe distance and protected location. Use water spray or fog for cooling exposed containers. If possible, take container out of dangerous zone. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid all personal contact including breathing in the mist, spray, vapors, gas. Do not take actions involving personal risks. Stop leak if safe to do so. Notify authorities if product enters sewers or public waters.

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Evacuate the danger area. If outdoors, move to an area upwind of the danger area. If possible without taking personal risks, remove ignition sources, ventilate area. Avoid contact with skin and eyes. Prevent other non-emergency personnel from entering the danger area.

6.1.2. For emergency responders

Protective equipment : Wear the recommended personal protective equipment.

Emergency procedures : Evacuate personnel to a safe area. Ventilate spillage area.

6.2. Environmental precautions

Do not let the product reach soil, drains, sewers, or surface and ground water.

6.3. Methods and material for containment and cleaning up

For containment : Contain with non-combustible inert absorbent.

Methods for cleaning up : Take up in non-combustible inert absorbent and place into container for disposal. Contaminated absorbent material may pose the same hazard as the spilt product. Decontaminate surfaces and equipment with water and detergent. Until a sufficient level of dilution is achieved, the decontamination water may pose the same hazards as the product. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Wear personal protective equipment. Do not breathe mist, spray, vapors, gas. Do not get in eyes, on skin, or on clothing. Floors, walls and other surfaces in the hazard area must be cleaned regularly.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a cool, dry and well-ventilated area away from incompatible substances. Keep only in original container.

Storage temperature : > 10 °C / 50 °F

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

ProSil Finish

No additional information available

Titanium dioxide (13463-67-7)

USA - ACGIH - Occupational Exposure Limits

Local name	Titanium dioxide
ACGIH OEL TWA	0.2 mg/m³ (Nanoscale particles. R - Repirable particulate matter) 2.5 mg/m³ (Finescale particles. R - Repirable particulate matter)
Remark (ACGIH)	TLV® Basis: LRT irr; pneumoconiosis. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2023

USA - OSHA - Occupational Exposure Limits

Local name	Titanium dioxide (Total dust)

Titanium dioxide (13463-67-7)	
OSHA PEL TWA	15 mg/m³
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

2-Butanone,O,O', O"-(Methylsilylidyne)Trioxime (22984-54-9)

No additional information available

Octamethyl Cyclotetrasiloxane (556-67-2)

No additional information available

N-(3-(Trimethoxysilyl)-1,2-ethanediamine (1760-24-3)

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station. Use general ventilation, local exhaust ventilation or process enclosure to keep the airborne concentrations below the permissible exposure limits.

Environmental exposure controls : Avoid release to the environment. Take measures to reduce or limit air emissions and releases to soil and the aquatic environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:
Personal protective equipment should be chosen according to national standards and in discussion with the supplier of the protective equipment. Wear recommended personal protective equipment.

Hand protection:

Wear protective gloves

Eye protection:

Chemical goggles or face shield

Skin and body protection:

Body protection should be chosen depending on activity and possible exposure. Wear chemically protective gloves, lab coat or apron to prevent prolonged or repeated skin contact

Respiratory protection:

Use NIOSH approved respirator if ventilation is inadequate. SCBA for emergency responders. Must be used in accordance with an OSHA complaint respiratory protection program.

Personal protective equipment symbol(s):

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid.
Appearance : Viscous liquid.
Color : Various colors
Odor : slight

Odor threshold	:	No data available
pH	:	No data available
Melting point	:	Not applicable
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	134 °C / 273.2 °F
Relative evaporation rate (butyl acetate=1)	:	No data available
Flammability (solid, gas)	:	Not applicable.
Vapor pressure	:	No data available
Relative vapor density at 20°C	:	No data available
Relative density	:	No data available
Solubility	:	Insoluble in water. Soluble in most organic solvents.
Partition coefficient n-octanol/water (Log Pow)	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	4000 cP 73 °F / 22.78 °C
Explosion limits	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Incompatible materials.

10.5. Incompatible materials

Oxidizing agents. Strong acids. Strong bases. Strong reducing agents.

10.6. Hazardous decomposition products

No hazardous decomposition products known at room temperature. Thermal decomposition generates : Carbon dioxide. Carbon monoxide. Silicon oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	:	Not classified
Acute toxicity (dermal)	:	Not classified
Acute toxicity (inhalation)	:	Not classified

ProSil Finish	
Unknown acute toxicity (GHS US)	5% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral) 21% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 20% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

Titanium dioxide	
LD50 oral rat	> 5000 mg/kg body weight

2-Butanone,O,O', O''-(Methylsilylidyne)Trioxime	
LD50 oral rat	2463 mg/kg body weight
LD50 dermal rat	> 2000 mg/kg body weight

Octamethyl Cyclotetrasiloxane	
LD50 oral rat	> 4800 mg/kg body weight
LC50 Inhalation - Rat	36 mg/l air

N-(3-(Trimethoxysilyl)-1,2-ethanediamine	
LD50 oral rat	2295 mg/kg body weight
LD50 dermal rabbit	> 2000 mg/kg body weight
LC50 Inhalation - Rat	1.49 – 2.44 mg/l/4h

Skin corrosion/irritation : Not classified

N-(3-(Trimethoxysilyl)-1,2-ethanediamine	
Additional information	Not irritating to rabbits on cutaneous application

Serious eye damage/irritation : Causes serious eye irritation.

2-Butanone,O,O', O''-(Methylsilylidyne)Trioxime	
Serious eye damage/irritation, rabbit	Severely irritating to the eyes

N-(3-(Trimethoxysilyl)-1,2-ethanediamine	
Serious eye damage/irritation, rabbit	Cased serious damage to rabbit eyes, with effects that were not fully reversed within the 21-day observation period.

Respiratory or skin sensitization : May cause an allergic skin reaction.

2-Butanone,O,O', O''-(Methylsilylidyne)Trioxime	
Guinea pig maximization test	Skin sensitizer

Octamethyl Cyclotetrasiloxane	
Additional information	No sensitizing reaction was observed for guinea pigs

N-(3-(Trimethoxysilyl)-1,2-ethanediamine	
Guinea pig maximization test	Skin sensitizer

Germ cell mutagenicity : Not classified

Carcinogenicity : Suspected of causing cancer.

Titanium dioxide	
IARC group	2B - Possibly carcinogenic to humans

Reproductive toxicity : Suspected of damaging fertility or the unborn child.

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

N-(3-(Trimethoxysilyl)-1,2-ethanediamine	
NOAEL (oral,rat,90 days)	≥ 500 mg/kg body weight
NOAEL (dermal,rat/rabbit,90 days)	≥ 1545 mg/kg body weight

Aspiration hazard : Not classified
Viscosity, kinematic : No data available

Octamethyl Cyclotetrasiloxane	
Viscosity, kinematic	1.6 mm²/s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm²/s)'

N-(3-(Trimethoxysilyl)-1,2-ethanediamine	
Viscosity, kinematic	3.1 mm²/s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm²/s)'

Symptoms/effects after inhalation : Inhalation may cause irritation (cough, short breathing, difficulty in breathing).
Symptoms/effects after skin contact : May cause an allergic skin reaction.
Symptoms/effects after eye contact : Direct contact with the eyes is likely to be irritating. Stinging, redness, itching, tears, blurred vision, swelling.
Symptoms/effects after ingestion : Gastrointestinal disturbances.
Most Important Symptoms/Effects : Irritation to eyes, skin and respiratory tract. May cause an allergic skin reaction.
Chronic symptoms : Suspected of damaging the unborn child. Suspected carcinogen.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : No specific data is currently available on this product's effects on aquatic life, however release of this product may have long term effects on the aquatic environment.

Titanium dioxide	
EC50 - Other aquatic organisms [1]	> 100 mg/l
EC50 72h - Algae [1]	> 100 mg/l
LOEC (chronic)	5 mg/l

2-Butanone,O,O', O"-(Methylsilylidyne)Trioxime	
EC50 - Crustacea [1]	201 mg/l
EC50 - Other aquatic organisms [1]	231.84 mg/l

Octamethyl Cyclotetrasiloxane	
LC50 - Fish [1]	> 22 µg/l
EC50 - Crustacea [1]	> 15 µg/l

N-(3-(Trimethoxysilyl)-1,2-ethanediamine	
LC50 - Fish [1]	597 mg/l
EC50 - Crustacea [1]	81 mg/l
EC50 72h - Algae [1]	126 mg/l
EC50 72h - Algae [2]	352 mg/l

12.2. Persistence and degradability

No additional information available

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. Disposal methods

Regional waste regulation : Disposal must be done according to official regulations.
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations : Disposal must be done according to official regulations.
Product/Packaging disposal recommendations : Dispose of this material and its container at hazardous or special waste collection point. Refer to all applicable national, international and local regulations or provisions.
Additional information : Do not re-use empty containers.
Ecological information : Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT / IMDG / IATA

DOT	IMDG	IATA
14.1. UN number		
Not regulated for transport		
14.2. Proper Shipping Name		
Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)		
Not regulated	Not regulated	Not regulated
14.4. Packing group		
Not regulated	Not regulated	Not regulated
14.5. Environmental hazards		
Not regulated	Not regulated	Not regulated
No supplementary information available		

14.6. Special precautions for user

DOT
Not regulated

IMDG
Not regulated

IATA
Not regulated

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory		
Contains chemical(s) subject to TSCA 12b export notification if product is shipped outside the U.S		
Octamethyl Cyclotetrasiloxane	CAS-No. 556-67-2	1 – 5%

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

CANADA

Titanium dioxide

Listed on the Canadian DSL (Domestic Substances List)

2-Butanone,O,O', O''-(Methylsilylidyne)Trioxime (22984-54-9)

Listed on the Canadian DSL (Domestic Substances List)

Octamethyl Cyclotetrasiloxane (556-67-2)

Listed on the Canadian DSL (Domestic Substances List)

N-(3-(Trimethoxysilyl)-1,2-ethanediamine (1760-24-3)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

Titanium dioxide

Listed on IARC (International Agency for Research on Cancer)
Listed on INSQ (Mexican National Inventory of Chemical Substances)

Octamethyl Cyclotetrasiloxane (556-67-2)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. US State regulations

WARNING: This product can expose you to Titanium dioxide (airborne, unbound particles of respirable size), which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

SECTION 16: Other information

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

Full text of H-phrases	
H227	Combustible liquid
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H351	Suspected of causing cancer
H361	Suspected of damaging fertility or the unborn child
H410	Very toxic to aquatic life with long lasting effects

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.