

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Trade name : FiberSeal Caulk

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 (Virginia, USA)
CCN 1014222

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Carcinogenicity Category 1B May cause cancer
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) : Danger
Hazard statements (GHS US) : May cause cancer
Precautionary statements (GHS US) : Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wear protective gloves/protective clothing/eye protection/face protection.
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

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2.4. Unknown acute toxicity (GHS US)

6.34% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)
46.73% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)
22.72% 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	0.1 – 5	Carc. 2, H351
tert-Butyl acetate	CAS-No.: 540-88-5	0.1 – 5	Flam. Liq. 2, H225 Aquatic Acute 2, H401
Petroleum distillates, solvent dewaxed heavy	CAS-No.: 64742-65-0	0.04 – 3.5	Carc. 1B, H350
Petroleum distillates, solvent dewaxed light paraffinic	CAS-No.: 64742-56-9	0.01 – 1.5	Carc. 1B, H350

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	: 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	: Remove person to fresh air and keep comfortable for breathing. Get immediate medical advice/attention.
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 occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: 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.
First-aid measures after ingestion	: Rinse mouth. If the person is fully conscious, make him/her drink water (8 ounces / 240mL). Never give an unconscious person anything to drink. 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	: Prolonged or repeated contact may cause skin to become dry.
Symptoms/effects after eye contact	: Stinging, redness, itching, tears, blurred vision, swelling.
Symptoms/effects after ingestion	: Gastrointestinal disturbances.
Chronic symptoms	: May cause cancer.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

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SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Dry chemical, CO₂, dry sand, or alcohol-resistant 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 : Toxic fumes may be released. Thermal decomposition generates : Ammonia. Carbon dioxide. Carbon monoxide. Nitrous oxide. Sulphur oxides. Silicon oxides.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Fight fire with normal precautions from a reasonable distance. If possible, take container out of dangerous zone. Use water spray or fog for cooling exposed containers. 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 gas, mist, spray, vapors. Do not take actions involving personal risks.

6.1.1. For non-emergency personnel

Protective equipment : Wear the 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. 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. 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.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: 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 get in eyes, on skin, or on clothing.
Hygiene measures	: Always wash hands after handling the product. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Store in a well-ventilated place. Keep container tightly closed.
Storage temperature	: > 10 °C / 50 °F

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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No additional information available

Titanium dioxide (13463-67-7)

USA - ACGIH - Occupational Exposure Limits

Local name	Titanium dioxide
ACGIH OEL TWA	0.2 mg/m ³ (Nanoscale particles. R - Repairable particulate matter) 2.5 mg/m ³ (Finescale particles. R - Repairable 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)
OSHA PEL TWA	15 mg/m ³
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

Petroleum distillates, solvent dewaxed light paraffinic (64742-56-9)

No additional information available

Petroleum distillates, solvent dewaxed heavy (64742-65-0)

No additional information available

tert-Butyl acetate (540-88-5)

USA - ACGIH - Occupational Exposure Limits

Local name	tert-Butyl acetate
ACGIH OEL TWA	50 ppm
ACGIH OEL STEL	150 ppm
Remark (ACGIH)	TLV® Basis: Eye & URT irr
Regulatory reference	ACGIH 2023

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tert-Butyl acetate (540-88-5)

USA - OSHA - Occupational Exposure Limits

Local name	tert-Butyl-acetate
OSHA PEL TWA	950 mg/m ³
	200 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

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.

Hand protection:

Wear protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Body protection should be chosen depending on activity and possible exposure. Wear suitable protective clothing

Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid.
Appearance	: Solid in suspension.
Color	: White
Odor	: No data available
Odor threshold	: No data available
pH	: 9
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: 100 °C / 212 °F
Flash point	: Not applicable
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.

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Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Density	: 11 pounds/gallon at 23 °C/73 °F
Solubility	: Soluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: 5000 cP 23 °C / 73 °F
Explosion limits	: Not applicable
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

Stable under normal conditions of use.

10.4. Conditions to avoid

Incompatible materials.

10.5. Incompatible materials

Oxidizing agents. Strong acids. Strong bases.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition generates : Ammonia. Carbon monoxide. Carbon dioxide. Nitrogen oxides. Sulphur oxides. 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

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Unknown acute toxicity (GHS US)	6.34% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral) 46.73% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 22.72% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))
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Titanium dioxide	
LD50 oral rat	> 5000 mg/kg body weight
Petroleum distillates, solvent dewaxed light paraffinic	
LD50 oral rat	> 5000 mg/kg body weight
Petroleum distillates, solvent dewaxed heavy	
LD50 oral rat	> 5000 mg/kg body weight
LC50 Inhalation - Rat	> 5.53 mg/l/4h
tert-Butyl acetate	
LD50 dermal rabbit	> 2000 mg/kg body weight
Skin corrosion/irritation	: Not classified pH: 9
Serious eye damage/irritation	: Not classified pH: 9
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: May cause cancer.
Titanium dioxide	
IARC group	2B - Possibly carcinogenic to humans
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Petroleum distillates, solvent dewaxed light paraffinic	
LOAEL (oral,rat,90 days)	125 mg/kg body weight
NOAEC (inhalation,rat,dust/mist/fume,90 days)	> 0.98 mg/l air
Petroleum distillates, solvent dewaxed heavy	
LOAEL (oral,rat,90 days)	125 mg/kg body weight
NOAEC (inhalation,rat,dust/mist/fume,90 days)	> 0.98 mg/l air
Aspiration hazard	: Not classified
Viscosity, kinematic	: Not applicable
tert-Butyl acetate	
Viscosity, kinematic	< 1 mm ² /s
Symptoms/effects after inhalation	: Inhalation may cause irritation (cough, short breathing, difficulty in breathing).
Symptoms/effects after skin contact	: Prolonged or repeated contact may cause skin to become dry.
Symptoms/effects after eye contact	: Stinging, redness, itching, tears, blurred vision, swelling.
Symptoms/effects after ingestion	: Gastrointestinal disturbances.
Chronic symptoms	: May cause cancer.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

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Titanium dioxide	
EC50 - Other aquatic organisms [1]	> 100 mg/l
EC50 72h - Algae [1]	> 100 mg/l
LOEC (chronic)	5 mg/l
tert-Butyl acetate	
LC50 - Fish [1]	240 mg/l
EC50 - Crustacea [1]	350 mg/l
EC50 72h - Algae [1]	16 mg/l
EC50 72h - Algae [2]	6.1 mg/l
EC50 96h - Algae [1]	64 mg/l
EC50 96h - Algae [2]	5.8 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.
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.
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	Not regulated	Not regulated
14.2. Proper Shipping Name		
Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)		
Not regulated	Not regulated	Not regulated

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DOT	IMDG	IATA
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

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Ammonia	CAS-No. 7664-41-7	0.1 – 5%
Copper (II) nitrate	CAS-No. 3251-23-8	0 – 0.009%

tert-Butyl acetate (540-88-5)

CERCLA RQ	5000 lb
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15.2. International regulations

CANADA

Titanium dioxide

Listed on the Canadian DSL (Domestic Substances List)

Petroleum distillates, solvent dewaxed light paraffinic (64742-56-9)

Listed on the Canadian DSL (Domestic Substances List)

Petroleum distillates, solvent dewaxed heavy (64742-65-0)

Listed on the Canadian DSL (Domestic Substances List)

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tert-Butyl acetate (540-88-5)

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)

Petroleum distillates, solvent dewaxed heavy (64742-65-0)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

tert-Butyl acetate (540-88-5)

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

H225	Highly flammable liquid and vapor
H350	May cause cancer
H351	Suspected of causing cancer
H401	Toxic to aquatic life

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.