

Safety Data Sheet

Firestone Building Products Company

Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier

Product Name • UltraPly™ TPO General Purpose Sealant
Chemical Category • Adhesives

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

Relevant identified use(s) • Construction

1.3 Details of the supplier of the safety data sheet

Manufacturer • Firestone Building Products Company
 250 West 96th Street
 Indianapolis, IN 46260
 United States

Telephone (General) • firestonemsds@bfdp.com
 800-428-4442

1.4 Emergency telephone number

Manufacturer • (800) 424-9300 - CHEMTREC
Manufacturer • (703) 527-3887 - CHEMTREC - International

Section 2: Hazards Identification

EU/EEC

According to EU Directive 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]
 According to EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

2.1 Classification of the substance or mixture

CLP

- Flammable Liquids 2 - H225
- Skin Irritation 2 - H315
- Eye Irritation 2 - H319
- Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation - H335
- Reproductive Toxicity 2 - H361

DSD/DPD

- Highly Flammable (F)
- Irritant (Xi)
- Substances Toxic To Reproduction - Category 3
- R11, R36/37/38, R62, R63

2.2 Label Elements

CLP

DANGER



- Hazard statements**
- H225 - Highly flammable liquid and vapour
 - H315 - Causes skin irritation
 - H319 - Causes serious eye irritation
 - H335 - May cause respiratory irritation
 - H361 - Suspected of damaging fertility or the unborn child.

Precautionary statements

- Prevention**
- P201 - Obtain special instructions before use.
 - P202 - Do not handle until all safety precautions have been read and understood.
 - P210 - Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.
 - P233 - Keep container tightly closed.
 - P240 - Ground and/or bond container and receiving equipment.
 - P241 - Use explosion-proof electrical/ventilating/lighting/equipment.
 - P242 - Use only non-sparking tools.
 - P243 - Take precautionary measures against static discharge.
 - P261 - Avoid breathing mist/vapours/spray.
 - P264 - Wash thoroughly after handling.
 - P271 - Use only outdoors or in a well-ventilated area.
 - P280 - Wear protective gloves/protective clothing/eye protection/face protection.
 - P281 - Use personal protective equipment as required.
- Response**
- P370+P378 - In case of fire: Use appropriate media for extinction.
 - P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 - P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
 - P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 - P321 - Specific treatment, see supplemental first aid information.
 - P332+P313 - If skin irritation occurs: Get medical advice/attention.
 - P362 - Take off contaminated clothing and wash before reuse.
 - P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - P337+P313 - If eye irritation persists: Get medical advice/attention.
 - P308+P313 - IF exposed or concerned: Get medical advice/attention.
- Storage/Disposal**
- P233 - Keep container tightly closed.
 - P403+P235 - Store in a well-ventilated place. Keep cool.
 - P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

DSD/DPD



- Risk phrases**
- R11 - Highly flammable.
 - R36/37/38 - Irritating to eyes, respiratory system and skin.
 - R62 - Possible risk of impaired fertility.
 - R63 - Possible risk of harm to the unborn child.
- Safety phrases**
- S9 - Keep container in a well ventilated place
 - S16 - Keep away from sources of ignition - No Smoking.
 - S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 - S37 - Wear suitable gloves.

2.3 Other Hazards

- CLP**
- According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.
- DSD/DPD**
- According to European Directive 1999/45/EC this preparation is considered dangerous.

United States (US)

According to OSHA 29 CFR 1910.1200 HCS

2.1 Classification of the substance or mixture

OSHA HCS 2012

- Flammable Liquids 2 - H225
- Skin Irritation 2 - H315
- Eye Irritation 2A - H319
- Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation - H335
- Reproductive Toxicity 2 - H361

2.2 Label elements

OSHA HCS 2012

DANGER



- Hazard statements**
- Highly flammable liquid and vapour - H225
 - Causes skin irritation - H315
 - Causes serious eye irritation - H319
 - May cause respiratory irritation - H335
 - Suspected of damaging fertility or the unborn child. - H361

Precautionary statements

- Prevention**
- Obtain special instructions before use. - P201
 - Do not handle until all safety precautions have been read and understood. - P202
 - Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking. - P210
 - Keep container tightly closed. - P233
 - Ground and/or bond container and receiving equipment. - P240
 - Use explosion-proof electrical/ventilating/lighting/equipment. - P241
 - Use only non-sparking tools. - P242
 - Take precautionary measures against static discharge. - P243
 - Avoid breathing mist/vapours/spray. - P261
 - Wash thoroughly after handling. - P264
 - Use only outdoors or in a well-ventilated area. - P271
 - Wear protective gloves/protective clothing/eye protection/face protection. - P280
 - Use personal protective equipment as required. - P281
- Response**
- In case of fire: Use appropriate media for extinction. - P370+P378
 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. - P304+P340
 - Call a POISON CENTER or doctor/physician if you feel unwell. - P312
 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. - P303+P361+P353
 - Specific treatment, see supplemental first aid information. - P321
 - If skin irritation occurs: Get medical advice/attention. - P332+P313
 - Take off contaminated clothing and wash before reuse. - P362
 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. - P305+P351+P338
 - If eye irritation persists: Get medical advice/attention. - P337+P313
 - IF exposed or concerned: Get medical advice/attention. - P308+P313
- Storage/Disposal**
- Keep container tightly closed. - P233
 - Store in a well-ventilated place. Keep cool. - P403+P235
 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. - P501

2.3 Other hazards

OSHA HCS 2012

- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Canada

According to WHMIS

2.1 Classification of the substance or mixture

WHMIS

- Flammable Liquids - B2
- Other Toxic Effects - D2B

2.2 Label elements**WHMIS**

- Flammable Liquids - B2
- Other Toxic Effects - D2B

2.3 Other hazards**WHMIS**

- In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

See Section 12 for Ecological Information.

Section 3 - Composition/Information on Ingredients

3.1 Substances

- Material does not meet the criteria of a substance in accordance with Regulation (EC) No 1272/2008.

3.2 Mixtures

Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
Limestone	CAS: 1317-65-3 EC Number: 215-279-6	30% TO 60%	NDA	EU DSD/DPD: Self Classified - Xn R48/20 EU CLP: Self Classified - STOT RE 1 (Lungs), H372 OSHA HCS 2012: STOT RE 1 (Lungs)	NDA
Calcium oxide	CAS: 1305-78-8 EC Number: 215-138-9 UN: UN1910	20% TO 40%	NDA	EU DSD/DPD: Self Classified - C, R34 EU CLP: Self Classified - Skin Corr. 1C, H314; Eye Dam. 1, H318 OSHA HCS 2012: Skin Corr. 1C; Eye Dam. 1	NDA
Light aliphatic solvent naphtha	CAS: 64742-89-8 EC Number: 265-192-2	< 15%	NDA	EU DSD/DPD: Annex I - Carc. Cat. 2; R45; Muta. Cat. 2; R46; Xn; R65 EU CLP: Annex VI - Carc. 1B, H350; Muta. 1B, H340; Asp. Tox. 1, H304 OSHA HCS 2012: Asp. Tox 1	NDA
Distillates (petroleum), hydrotreated light	CAS: 64742-47-8 EC Number: 265-149-8	< 7%	NDA	EU DSD/DPD: Annex I: Xn; R65 EU CLP: Annex VI: Asp. Tox. 1; H304 OSHA HCS 2012: Asp. Tox. 1	NDA
Titanium dioxide	CAS: 13463-67-7 EC Number: 236-675-5	< 5%	NDA	EU DSD/DPD: Self Classified - Carc. 3 R40; N R51-53 EU CLP: Self Classified - Carc. 2 H351; Aquatic Chronic 2 H411 OSHA HCS 2012: Carc. 2	NDA
Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	CAS: 64742-52-5 EC Number: 265-155-0	< 5%	NDA	EU DSD/DPD: Annex I - Carc. Cat. 2; R45 EU CLP: Annex VI - Carc. 1B; H350 OSHA HCS 2012: Skin Irrit. 2	NDA

Bentonite	CAS:1302-78-9 EC Number:215-108-5	< 5%	NDA	EU DSD/DPD: Self Classified - Xn R48 EU CLP: Self Classified - STOT RE 2 - Lung, H373 OSHA HCS 2012: STOT RE 2 - Lung	NDA
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See Section 16 for full text of H-statements and R-phrases. See Section 11 for Toxicological Information.

Section 4 - First Aid Measures

4.1 Description of first aid measures

Inhalation

- Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. Get medical attention if symptoms occur.

Skin

- In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical advice/attention.

Eye

- In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. If eye irritation persists: Get medical advice/attention.

Ingestion

- Rinse mouth. Do NOT induce vomiting. Get medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician

- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Section 5 - Firefighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media

- Carbon dioxide, dry chemical, alcohol foam or water fog.
Do not use a direct stream of water.
Product will float and can be reignited on the surface of the water.

Unsuitable Extinguishing Media

- Do not use a direct stream of water.

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards

- HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames. Vapors may form explosive mixtures with air. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapors may travel to source of ignition and flash back. Vapor explosion hazard indoors, outdoors or in sewers. Residue in "empty" containers may be explosive if exposed to an ignition source.

Hazardous Combustion Products

- Carbon dioxide, carbon monoxide, acrid smoke, irritating fumes.

5.3 Advice for firefighters

- Move containers from fire area if you can do it without risk.
Cool fire exposed containers with water.
Wear positive pressure self-contained breathing apparatus (SCBA).
Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.
Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions

- Use only with adequate ventilation. Wear respiratory protection. Wear appropriate protective clothing.

Emergency Procedures

- As an immediate precautionary measure, isolate spill or leak area in all directions for at least 50 meters (150 feet) for liquids and at least 25 meters (75 feet) for solids. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area) Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering.

6.2 Environmental precautions

- Prevent entry into waterways, sewers, basements or confined areas.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures

- Stop leak if you can do it without risk.
A vapor suppressing foam may be used to reduce vapors.
Absorb liquid on inert material. Transfer to secured container for proper disposal.
Use clean non-sparking tools to collect absorbed material.
All equipment used when handling the product must be grounded.
LARGE SPILLS: Dike far ahead of spill for later disposal.

6.4 Reference to other sections

- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Handling

- Keep away from fire, sparks and heated surfaces. Keep containers closed. Do not use in areas without adequate ventilation. Avoid breathing mist/vapours/spray. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Wear appropriate personal protective equipment. Containers, even those that have been emptied, can contain explosive vapors. Do not cut, drill, grind, weld or perform similar operations near container.

7.2 Conditions for safe storage, including any incompatibilities

Storage

- Store in a well-ventilated place. Keep container tightly closed.

7.3 Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

Section 8 - Exposure Controls/Personal Protection

8.1 Control parameters

Exposure Limits/Guidelines						
	Result	ACGIH	Belgium	Canada Alberta	Canada British Columbia	Canada Manitoba
Titanium dioxide (13463-67-7)	TWAs	10 mg/m ³ TWA	10 mg/m ³ TWA	10 mg/m ³ TWA	10 mg/m ³ TWA (total dust); 3 mg/m ³ TWA (respirable fraction)	10 mg/m ³ TWA
Distillates (petroleum), hydrotreated light (64742-47-8)	TWAs	Not established	Not established	Not established	200 mg/m ³ TWA (application restricted to conditions in which there are negligible aerosol exposures, as total Hydrocarbon	Not established

					vapour)	
Calcium oxide (1305-78-8)	TWAs	2 mg/m3 TWA	2 mg/m3 TWA	2 mg/m3 TWA	2 mg/m3 TWA	2 mg/m3 TWA
Limestone (1317-65-3)	TWAs	Not established	10 mg/m3 TWA	10 mg/m3 TWA	10 mg/m3 TWA (total dust); 3 mg/m3 TWA (respirable fraction)	Not established
	STELs	Not established	Not established	Not established	20 mg/m3 STEL	Not established
Exposure Limits/Guidelines (Con't.)						
	Result	Canada New Brunswick	Canada Northwest Territories	Canada Nova Scotia	Canada Nunavut	Canada Ontario
Titanium dioxide (13463-67-7)	TWAs	10 mg/m3 TWA	5 mg/m3 TWA (respirable mass); 10 mg/m3 TWA (total mass)	10 mg/m3 TWA	5 mg/m3 TWA (respirable mass); 10 mg/m3 TWA (total mass)	10 mg/m3 TWA (total dust)
Calcium oxide (1305-78-8)	TWAs	2 mg/m3 TWA	2 mg/m3 TWA	2 mg/m3 TWA	2 mg/m3 TWA	2 mg/m3 TWA
	STELs	Not established	4 mg/m3 STEL	Not established	4 mg/m3 STEL	Not established
Limestone (1317-65-3)	TWAs	10 mg/m3 TWA (particulate matter containing no Asbestos and <1% Crystalline silica)	5 mg/m3 TWA (respirable mass); 10 mg/m3 TWA (total mass)	Not established	5 mg/m3 TWA (respirable mass); 10 mg/m3 TWA (total mass)	Not established
Exposure Limits/Guidelines (Con't.)						
	Result	Canada Quebec	Canada Saskatchewan	Canada Yukon	Denmark	Germany DFG
Titanium dioxide (13463-67-7)	TWAs	10 mg/m3 TWAEV (containing no Asbestos and <1% Crystalline silica, total dust)	10 mg/m3 TWA	30 mppcf TWA (as Ti); 10 mg/m3 TWA (as Ti)	6 mg/m3 TWA (as Ti)	Not established
	STELs	Not established	Not established	20 mg/m3 STEL (as Ti)	Not established	Not established
Distillates (petroleum), hydrotreated light (64742-47-8)	Ceilings	Not established	Not established	Not established	Not established	40 ppm Peak; 280 mg/m3 Peak
	MAKs	Not established	Not established	Not established	Not established	20 ppm TWA MAK; 140 mg/m3 TWA MAK
Calcium oxide (1305-78-8)	TWAs	2 mg/m3 TWAEV	2 mg/m3 TWA	2 mg/m3 TWA	2 mg/m3 TWA	Not established
	STELs	Not established	Not established	4 mg/m3 STEL	Not established	Not established
Limestone (1317-65-3)	TWAs	10 mg/m3 TWAEV (Limestone, containing no Asbestos and <1% Crystalline silica, total dust)	10 mg/m3 TWA	30 mppcf TWA; 10 mg/m3 TWA	Not established	Not established
	STELs	Not established	Not established	20 mg/m3 STEL	Not established	Not established
Exposure Limits/Guidelines (Con't.)						
	Result	NIOSH			OSHA	
Titanium dioxide (13463-67-7)	TWAs	Not established			15 mg/m3 TWA (total dust)	
Calcium oxide (1305-78-8)	TWAs	2 mg/m3 TWA			5 mg/m3 TWA	

Limestone (1317-65-3)	TWAs	10 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable dust)	15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction)
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Exposure Control Notations

Germany DFG

•Distillates (petroleum), hydrotreated light (64742-47-8): **Carcinogens:** (Category 3B (could be carcinogenic for man, isomers in technical mixtures)) | **Carcinogens:** (Category 3A (could be carcinogenic for man, inhalable fraction with the exception of ultra small particles))

8.2 Exposure controls

Engineering Measures/Controls

- Use explosion-proof electrical/ventilating/lighting/equipment. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal Protective Equipment

Respiratory

- Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

Eye/Face

- Wear protective eyewear (goggles, face shield, or safety glasses).

Skin/Body

- Wear protective gloves and clothing .

General Industrial Hygiene Considerations

- Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke during work. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

Environmental Exposure Controls

- Follow best practice for site management and disposal of waste.

Key to abbreviations

STEL = Short Term Exposure Limits are based on 15-minute exposures

NIOSH = National Institute of Occupational Safety and Health

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

OSHA = Occupational Safety and Health Administration

ACGIH = American Conference of Governmental Industrial Hygiene

Section 9 - Physical and Chemical Properties

9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	White paste with petroleum naphtha odor.
Color	White	Odor	Petroleum naphtha odor.
Particulate Size	Data lacking	Odor Threshold	Data lacking
General Properties			
Boiling Point	268 F(131.1111 C)	Melting Point	Data lacking
Decomposition Temperature	Data lacking	pH	Data lacking
Specific Gravity/Relative Density	1.42 Water=1	Water Solubility	Negligible < 0.1 %
Viscosity	Data lacking	Explosive Properties	Data lacking
Oxidizing Properties:	Data lacking		
Volatility			
Vapor Pressure	2 mmHg (torr)	Vapor Density	3 Air=1
Evaporation Rate	< 1 n-Butyl Acetate = 1	VOC (Vol.)	250 g/L
Volatiles (Vol.)	20 %		
Flammability			
Flash Point	65 F(18.3333 C)	UEL	Data lacking

LEL	Data lacking	Autoignition	Data lacking
Flammability (solid, gas)	Data lacking		
Environmental			
Octanol/Water Partition coefficient	Data lacking	Degradation	Data lacking

9.2 Other Information

- No additional physical and chemical parameters noted.

Section 10: Stability and Reactivity

10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

- Stable under normal temperatures and pressures.

10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur.

10.4 Conditions to avoid

- Avoid flames, sparks, or other sources of ignition. Strong oxidizing agents.

10.5 Incompatible materials

- Strong oxidizing agents.

10.6 Hazardous decomposition products

- When burning: Carbon oxides, acrid smoke and irritating fumes.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

- Other Material Information**
- Due to the paste form of this material, it is unlikely that the solids of this material will be released while using under normal conditions.

GHS Properties	Classification
Acute toxicity	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Aspiration Hazard	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Carcinogenicity	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Germ Cell Mutagenicity	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Skin corrosion/Irritation	EU/CLP • Skin Irritation 2 OSHA HCS 2012 • Skin Irritation 2
Skin sensitization	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
STOT-RE	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
	EU/CLP • Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation

STOT-SE	OSHA HCS 2012 • Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation
Toxicity for Reproduction	EU/CLP • Toxic to Reproduction 2 OSHA HCS 2012 • Toxic to Reproduction 2
Respiratory sensitization	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Serious eye damage/Irritation	EU/CLP • Eye Irritation 2 OSHA HCS 2012 • Eye Irritation 2A

Route(s) of entry/exposure • Inhalation, Skin, Eye

Potential Health Effects

Inhalation

- Acute (Immediate)** • May cause respiratory irritation.
- Chronic (Delayed)** • No data available

Skin

- Acute (Immediate)** • Causes skin irritation.
- Chronic (Delayed)** • No data available.

Eye

- Acute (Immediate)** • Causes serious eye irritation.
- Chronic (Delayed)** • No data available.

Ingestion

- Acute (Immediate)** • May cause irritation.
- Chronic (Delayed)** • No data available.

Carcinogenic Effects

- Although this material contains titanium dioxide, which may be a carcinogen, due to the paste form of this material, it is unlikely that exposure to titanium dioxide will occur while using this material under normal conditions.

Carcinogenic Effects			
	CAS	IARC	NTP
Titanium dioxide	13463-67-7	Group 2B-Possible Carcinogen	Evidence of Carcinogenicity

Reproductive Effects • May cause adverse reproductive effects - such as birth defects, miscarriages or infertility based on animal data.

Key to abbreviations

- TC = Toxic Concentration
- TD = Toxic Dose
- MLD = Mild
- SEV = Severe

Section 12 - Ecological Information

12.1 Toxicity

- Material data lacking.

12.2 Persistence and degradability

- Material data lacking.

12.3 Bioaccumulative potential

- Material data lacking.

12.4 Mobility in Soil

- Material data lacking.

12.5 Results of PBT and vPvB assessment

- No PBT and vPvB assessment has been conducted.

12.6 Other adverse effects

- No studies have been found.

Section 13 - Disposal Considerations

13.1 Waste treatment methods

Product waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	UN1133	Adhesives	3	II	NDA
TDG	UN1133	ADHESIVES	3	II	NDA
IMO/IMDG	UN1133	ADHESIVES	3	II	NDA
ADN	UN1133	ADHESIVES	3	II	NDA
ADR/RID	UN1133	Adhesives	3	II	NDA
IATA/ICAO	UN1133	Adhesives	3	II	NDA

14.6 Special precautions for user

- None known.

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

- No data available

Section 15 - Regulatory Information

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

SARA Hazard Classifications • Acute, Chronic, Fire

State Right To Know				
Component	CAS	MA	NJ	PA
Limestone	1317-65-3	Yes	Yes	Yes
Calcium oxide	1305-78-8	Yes	Yes	Yes
Light aliphatic solvent naphtha	64742-89-8	No	No	No
Bentonite	1302-78-9	No	No	No
Hydrotreated heavy				

naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	No	No	No
Titanium dioxide	13463-67-7	Yes	Yes	Yes
Distillates (petroleum), hydrotreated light	64742-47-8	No	No	No

Inventory						
Component	CAS	Canada DSL	Canada NDSL	EU EINECS	EU ELNICS	TSCA
Limestone	1317-65-3	No	Yes	Yes	No	Yes
Calcium oxide	1305-78-8	Yes	No	Yes	No	Yes
Light aliphatic solvent naphtha	64742-89-8	Yes	No	Yes	No	Yes
		Yes		Yes		Yes
Bentonite	1302-78-9	Yes	No	Yes	No	Yes
Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	Yes	No	Yes	No	Yes
Titanium dioxide	13463-67-7	Yes	No	Yes	No	Yes
Distillates (petroleum), hydrotreated light	64742-47-8	Yes	No	Yes	No	Yes

Canada

Labor

Canada - WHMIS - Classifications of Substances

- Distillates (petroleum), hydrotreated light 64742-47-8 Not Listed
- Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined) 64742-52-5 Not Listed
- Calcium oxide 1305-78-8 E
D2A (In certain cases, this classification does not apply. For more information, consult the section Substance Specific Issues - Titanium dioxide, mixture containing on Health Canada's WHMIS Division website.)
- Titanium dioxide 13463-67-7
- Limestone 1317-65-3 D2A
- Light aliphatic solvent naphtha 64742-89-8 B2
- Bentonite 1302-78-9 D2A

Canada - WHMIS - Ingredient Disclosure List

- Distillates (petroleum), hydrotreated light 64742-47-8 Not Listed
- Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined) 64742-52-5 Not Listed
- Calcium oxide 1305-78-8 1 %
- Titanium dioxide 13463-67-7 Not Listed
- Limestone 1317-65-3 Not Listed
- Light aliphatic solvent naphtha 64742-89-8 Not Listed
- Bentonite 1302-78-9 Not Listed

Environment**Canada - CEPA - Priority Substances List**

• Distillates (petroleum), hydrotreated light	64742-47-8	Not Listed
• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	Not Listed
• Calcium oxide	1305-78-8	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• Light aliphatic solvent naphtha	64742-89-8	Not Listed
• Bentonite	1302-78-9	Not Listed

Europe**Other****EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification**

• Distillates (petroleum), hydrotreated light	64742-47-8	Xn; R65
• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	Carc.Cat.2; R45
• Calcium oxide	1305-78-8	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• Light aliphatic solvent naphtha	64742-89-8	Carc.Cat.2; R45 Muta.Cat.2; R46 Xn; R65
• Bentonite	1302-78-9	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits

• Distillates (petroleum), hydrotreated light	64742-47-8	Not Listed
• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	Not Listed
• Calcium oxide	1305-78-8	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• Light aliphatic solvent naphtha	64742-89-8	Not Listed
• Bentonite	1302-78-9	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling

• Distillates (petroleum), hydrotreated light	64742-47-8	Xn R:65 S:(2)-23-24-62
• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	T R:45 S:53-45
• Calcium oxide	1305-78-8	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• Light aliphatic solvent naphtha	64742-89-8	T R:45-46-65 S:53-45
• Bentonite	1302-78-9	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations

• Distillates (petroleum), hydrotreated light	64742-47-8	Not Listed
• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	L
• Calcium oxide	1305-78-8	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• Light aliphatic solvent naphtha	64742-89-8	P
• Bentonite	1302-78-9	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases

• Distillates (petroleum), hydrotreated light	64742-47-8	S:(2)-23-24-62
• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	S:53-45
• Calcium oxide	1305-78-8	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed

• Light aliphatic solvent naphtha	64742-89-8	S:53-45
• Bentonite	1302-78-9	Not Listed

United States

Labor

U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

• Distillates (petroleum), hydrotreated light	64742-47-8	Not Listed
• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	Not Listed
• Calcium oxide	1305-78-8	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• Light aliphatic solvent naphtha	64742-89-8	Not Listed
• Bentonite	1302-78-9	Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

• Distillates (petroleum), hydrotreated light	64742-47-8	Not Listed
• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	Not Listed
• Calcium oxide	1305-78-8	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• Light aliphatic solvent naphtha	64742-89-8	Not Listed
• Bentonite	1302-78-9	Not Listed

Environment

U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

• Distillates (petroleum), hydrotreated light	64742-47-8	Not Listed
• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	Not Listed
• Calcium oxide	1305-78-8	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• Light aliphatic solvent naphtha	64742-89-8	Not Listed
• Bentonite	1302-78-9	Not Listed

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

• Distillates (petroleum), hydrotreated light	64742-47-8	Not Listed
• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	Not Listed
• Calcium oxide	1305-78-8	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• Light aliphatic solvent naphtha	64742-89-8	Not Listed
• Bentonite	1302-78-9	Not Listed

U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

• Distillates (petroleum), hydrotreated light	64742-47-8	Not Listed
• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	Not Listed
• Calcium oxide	1305-78-8	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• Light aliphatic solvent naphtha	64742-89-8	Not Listed
• Bentonite	1302-78-9	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

• Distillates (petroleum), hydrotreated light	64742-47-8	Not Listed
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• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	Not Listed
• Calcium oxide	1305-78-8	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• Light aliphatic solvent naphtha	64742-89-8	Not Listed
• Bentonite	1302-78-9	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

• Distillates (petroleum), hydrotreated light	64742-47-8	Not Listed
• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	Not Listed
• Calcium oxide	1305-78-8	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• Light aliphatic solvent naphtha	64742-89-8	Not Listed
• Bentonite	1302-78-9	Not Listed

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

• Distillates (petroleum), hydrotreated light	64742-47-8	Not Listed
• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	Not Listed
• Calcium oxide	1305-78-8	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• Light aliphatic solvent naphtha	64742-89-8	Not Listed
• Bentonite	1302-78-9	Not Listed

U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

• Distillates (petroleum), hydrotreated light	64742-47-8	Not Listed
• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	Not Listed
• Calcium oxide	1305-78-8	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• Light aliphatic solvent naphtha	64742-89-8	Not Listed
• Bentonite	1302-78-9	Not Listed

United States - California**Environment****U.S. - California - Proposition 65 - Carcinogens List**

• Distillates (petroleum), hydrotreated light	64742-47-8	Not Listed
• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	Not Listed
• Calcium oxide	1305-78-8	Not Listed
• Titanium dioxide	13463-67-7	carcinogen, initial date 9/2/11 (airborne, unbound particles of respirable size)
• Limestone	1317-65-3	Not Listed
• Light aliphatic solvent naphtha	64742-89-8	Not Listed
• Bentonite	1302-78-9	Not Listed

U.S. - California - Proposition 65 - Developmental Toxicity

• Distillates (petroleum), hydrotreated light	64742-47-8	Not Listed
• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	Not Listed
• Calcium oxide	1305-78-8	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• Light aliphatic solvent naphtha	64742-89-8	Not Listed

• Bentonite	1302-78-9	Not Listed
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U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

• Distillates (petroleum), hydrotreated light	64742-47-8	Not Listed
• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	Not Listed
• Calcium oxide	1305-78-8	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• Light aliphatic solvent naphtha	64742-89-8	Not Listed
• Bentonite	1302-78-9	Not Listed

U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)

• Distillates (petroleum), hydrotreated light	64742-47-8	Not Listed
• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	Not Listed
• Calcium oxide	1305-78-8	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• Light aliphatic solvent naphtha	64742-89-8	Not Listed
• Bentonite	1302-78-9	Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Female

• Distillates (petroleum), hydrotreated light	64742-47-8	Not Listed
• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	Not Listed
• Calcium oxide	1305-78-8	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• Light aliphatic solvent naphtha	64742-89-8	Not Listed
• Bentonite	1302-78-9	Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Male

• Distillates (petroleum), hydrotreated light	64742-47-8	Not Listed
• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	Not Listed
• Calcium oxide	1305-78-8	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• Light aliphatic solvent naphtha	64742-89-8	Not Listed
• Bentonite	1302-78-9	Not Listed

United States - Pennsylvania**Labor****U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List**

• Distillates (petroleum), hydrotreated light	64742-47-8	Not Listed
• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	Not Listed
• Calcium oxide	1305-78-8	Not Listed
• Titanium dioxide	13463-67-7	Not Listed
• Limestone	1317-65-3	Not Listed
• Light aliphatic solvent naphtha	64742-89-8	Not Listed
• Bentonite	1302-78-9	Not Listed

U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances

• Distillates (petroleum), hydrotreated light	64742-47-8	Not Listed
• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	Not Listed
• Calcium oxide	1305-78-8	Not Listed
• Titanium dioxide	13463-67-7	Not Listed

• Limestone	1317-65-3	Not Listed
• Light aliphatic solvent naphtha	64742-89-8	Not Listed
• Bentonite	1302-78-9	Not Listed

15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

15.3 Other Information

- **WARNING:** This product contains a chemical known to the State of California to cause cancer.

Section 16 - Other Information

Relevant Phrases (code & full text)

- H304 - May be fatal if swallowed and enters airways
- H314 - Causes severe skin burns and eye damage
- H318 - Causes serious eye damage
- H340 - May cause genetic defects.
- H350 - May cause cancer.
- H351 - Suspected of causing cancer.
- H372 - Causes damage to organs through prolonged or repeated exposure.
- H373 - May cause damage to organs -Lungs through prolonged or repeated exposure via Inhalation
- H411 - Toxic to aquatic life with long lasting effects
- R34 - Causes burns.
- R40 - Limited evidence of a carcinogenic effect.
- R45 - May cause cancer.
- R46 - May cause heritable genetic damage.
- R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- R51 - Toxic to aquatic organisms.
- R53 - May cause long-term adverse effects in the aquatic environment.
- R65 - Harmful: may cause lung damage if swallowed.

Last Revision Date

- 20/June/2013

Preparation Date

- 12/August/2008

Disclaimer/Statement of Liability

- The information contained herein is based on data considered accurate which has been obtained from other companies and organizations. However, no warranty or representation is expressed or implied that the information, is accurate, complete or representative. Firestone Building Products Company, LLC assumes no responsibility for injury to the buyer, the buyer's employees, or any third persons, if reasonable safety procedures are not followed. Additionally, Firestone Building Products Company assumes no responsibility for injury to buyer, the buyer's employees, or any third persons caused by abnormal use of this material, even if reasonable safety procedures are followed.

Key to abbreviations

NDA = No data available