

Safety Data Sheet

GenFlex Roofing Systems

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

1.1 Product identifier

Product Name • EPDM Solvent-Free Bonding Adhesive

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

genflexmsds@bfdp.com

Telephone (General) • 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: Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]

2.1 Classification of the substance or mixture

CLP • Skin Sensitization 1 - H317
Eye Irritation 2 - H319

2.2 Label Elements

CLP

WARNING

Hazard statements • H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation

Precautionary statements

Prevention • P261 - Avoid breathing mist/vapours/spray.
P264 - Wash thoroughly after handling.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P280 - Wear protective gloves and eye/face protection , .

Response • P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
P363 - Wash contaminated clothing before reuse.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P321 - Specific treatment, see supplemental first aid information.

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.

- Storage/Disposal** • P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

2.3 Other Hazards

- CLP** • According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

2.1 Classification of the substance or mixture

- OSHA HCS 2012** • Skin Sensitization 1
 Eye Irritation 2

2.2 Label elements

OSHA HCS 2012

WARNING



- Hazard statements** • May cause an allergic skin reaction
 Causes serious eye irritation

Precautionary statements

- Prevention** • Avoid breathing mist/vapours/spray.
 Wash thoroughly after handling.
 Contaminated work clothing should not be allowed out of the workplace.
 Wear protective gloves and eye/face protection , .
- Response** • IF ON SKIN: Wash with plenty of soap and water.
 Wash contaminated clothing before reuse.
 If skin irritation or rash occurs: Get medical advice/attention.
 Specific treatment, see supplemental first aid information.
 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.

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

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** • Other Toxic Effects - D2B

2.2 Label elements

WHMIS



- 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).

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
1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich	CAS:68515-48-0 EINECS:271-090-9	30% TO 31%	NDA	EU CLP: Self Classified: Eye Irrit. 2, H319 OSHA HCS 2012: Eye Irrit. 2	NDA
3-aminopropyltrimethoxysilane	CAS:13822-56-5 EINECS:237-511-5	2.4% TO 5%	NDA	EU CLP: Not Classified OSHA HCS 2012: Flam Liq. 4	NDA
Organofunctional Silane	NDA	1% TO 2%	NDA	EU CLP: Self Classified: Skin Sens. 1, H317 OSHA HCS 2012: Skin Sens. 1	NDA

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. If signs/symptoms continue, get medical attention.

Skin

- Wash skin with soap and water. If irritation develops and persists, get medical 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. Drink 1 - 2 glasses of water. Do NOT induce vomiting. Do not give anything by mouth to an unconscious person. 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 • LARGE FIRE: Water spray, fog or regular foam.
SMALL FIRES: Dry chemical, CO₂, water spray or regular foam.

Unsuitable Extinguishing Media • No data available.

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards • Some may burn but none ignite readily.

Hazardous Combustion Products • No data available.

5.3 Advice for firefighters

- Structural firefighters' protective clothing will only provide limited protection. Wear positive pressure self-contained breathing apparatus (SCBA).

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions • Ventilate enclosed areas. Do not walk through spilled material. Wear appropriate personal protective equipment, avoid direct contact. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Emergency Procedures • As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Keep unauthorized personnel away. Keep out of low areas. Stay upwind.

6.2 Environmental precautions

- Prevent entry into waterways and sewers.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures • Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
Dike to collect large liquid spills.

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 • Use only in well ventilated areas. Wear appropriate personal protective equipment, avoid direct contact. Avoid breathing mist, vapours, spray. Avoid contact with skin, eyes, and clothing. Clean equipment as soon as possible after use. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

7.2 Conditions for safe storage, including any incompatibilities

Storage • Store in cool, dry place (60-80°F) away from moisture or incompatible materials. Keep container tightly closed when not in use. Do not freeze. Store away from heat, sparks and flame.

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 • No exposure limits/guidelines available for the material or the components.

8.2 Exposure controls

Engineering Measures/Controls • 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 • In case of insufficient ventilation, wear suitable respiratory equipment. 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 chemical splash safety goggles.

Skin/Body • Wear appropriate chemical resistant clothing and chemical resistant gloves.

Environmental Exposure Controls • Follow best practice for site management and disposal of waste. Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

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

MAK = Maximale Arbeitsplatz Konzentration is the maximum permissible concentration

STEV = Short Term Exposure Value

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

TWAEV = Time-Weighted Average Exposure Value

Section 9 - Physical and Chemical Properties

9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Light yellow or amber syrupy adhesive with minimal odor.
Color	Light yellow or amber.	Odor	Minimal odor.
Odor Threshold	Data lacking		
General Properties			
Boiling Point	Data lacking	Melting Point/Freezing Point	Data lacking
Decomposition Temperature	Data lacking	pH	Data lacking
Specific Gravity/Relative Density	= 1.005 Water=1	Water Solubility	Negligible < 0.1 %
Viscosity	8000 Centipoise (cPs, cP) or mPas	Explosive Properties	Data lacking
Oxidizing Properties:	Data lacking		
Volatility			
Vapor Pressure	Data lacking	Vapor Density	> 1 Air=1
Evaporation Rate	Data lacking	Volatiles (Vol.)	13 g/L
Flammability			
Flash Point	170 °F(76.6667 °C) PMCC (Pensky-Martins Closed Cup)	UEL	Data lacking
LEL	Data lacking	Autoignition	Data lacking
Flammability (solid, gas)	Not relevant.		
Environmental			

Octanol/Water Partition coefficient	Data lacking		
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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

10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur.

10.4 Conditions to avoid

- Avoid excessive freezing and heat.

10.5 Incompatible materials

- Moisture, water.

10.6 Hazardous decomposition products

- None known.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

Components	
1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich (30% TO 31%)	68515-48-0 Acute Toxicity: Ingestion/Oral-Rat LD50 • >10000 mg/kg; <i>Lungs, Thorax, or Respiration:Respiratory depression</i> ; Inhalation-Rat LC50 • >67 mg/m ³ 6 Hour(s); Skin-Rabbit LD50 • >3160 mg/kg; Irritation: Eye-Rabbit • 0.1 mL • Mild irritation; Reproductive: Ingestion/Oral-Rat TDLo • 10000 mg/kg (6-15D preg); <i>Reproductive Effects:Maternal Effects:Other effects; Reproductive Effects:Effects on Embryo or Fetus:Fetotoxicity (except death, e.g., stunted fetus)</i> ; Tumorigen / Carcinogen: Ingestion/Oral-Mouse TDLo • 65700 mg/kg 2 Year(s)-Intermittent; <i>Tumorigenic:Neoplastic by RTECS criteria; Liver:Tumors; Tumorigenic:Increased incidence of tumors in susceptible strains</i>

GHS Properties	Classification
Acute toxicity	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Skin corrosion/Irritation	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Serious eye damage/Irritation	EU/CLP • Eye Irritation 2 OSHA HCS 2012 • Eye Irritation 2
Skin sensitization	EU/CLP • Skin Sensitizer 1 OSHA HCS 2012 • Skin Sensitizer 1

Respiratory sensitization	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Aspiration Hazard	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Carcinogenicity	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Germ Cell Mutagenicity	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Toxicity for Reproduction	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
STOT-SE	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
STOT-RE	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking

Potential Health Effects

Inhalation

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

Skin

- Acute (Immediate)** • May cause skin sensitization. Symptoms include redness, and skin rash.
- Chronic (Delayed)** • No data available

Eye

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

Ingestion

- Acute (Immediate)** • No data available
- Chronic (Delayed)** • No data available

Key to abbreviations

- LD = Lethal Dose
- TD = Toxic Dose

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	NDA	Not Regulated	NDA	NDA	NDA
TDG	NDA	Not Regulated	NDA	NDA	NDA
IMO/IMDG	NDA	Not Regulated	NDA	NDA	NDA
ADN	NDA	Not Regulated	NDA	NDA	NDA
ADR/RID	NDA	Not Regulated	NDA	NDA	NDA
IATA/ICAO	NDA	Not Regulated	NDA	NDA	NDA

14.6 Special precautions for user

- None specified.

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

State Right To Know				
Component	CAS	MA	NJ	PA
1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich	68515-48-0	No	No	No
3-aminopropyltrimethoxysilane	13822-56-5	No	No	No
Arien	64742-16-1	No	No	No
Carbomethoxyethyltrimethoxysilane	76301-00-3	No	No	No
Dibutyltin Diacetyldiacetate	22673-19-4	No	No	No

Silyl-terminated polyether	75009-88-0	No	No	No
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Inventory						
Component	CAS	Canada DSL	Canada NDSL	China	EU EINECS	EU ELNICS
1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich	68515-48-0	Yes	No	Yes	Yes	No
3-aminopropyltrimethoxysilane	13822-56-5	Yes	No	Yes	Yes	No
Arien	64742-16-1	Yes	No	Yes	Yes	No
Carbomethoxyethyltrimethoxysilane	76301-00-3	No	No	No	No	No
Dibutyltin Diacetyldiacetate	22673-19-4	Yes	No	Yes	Yes	No
Silyl-terminated polyether	75009-88-0	Yes	No	No	No	No

Inventory (Con't.)				
Component	CAS	Japan ENCS	Korea KECL	TSCA
1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich	68515-48-0	Yes	Yes	Yes
3-aminopropyltrimethoxysilane	13822-56-5	Yes	Yes	Yes
Arien	64742-16-1	Yes	Yes	Yes
Carbomethoxyethyltrimethoxysilane	76301-00-3	No	No	No
Dibutyltin Diacetyldiacetate	22673-19-4	Yes	Yes	Yes
Silyl-terminated polyether	75009-88-0	Yes	Yes	No

Australia

Labor

Australia - Work Health and Safety Regulations - Hazardous Substances Requiring Health Monitoring

• 3-aminopropyltrimethoxysilane	13822-56-5	Not Listed
• Arien	64742-16-1	Not Listed
• 1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich	68515-48-0	Not Listed
• Silyl-terminated polyether	75009-88-0	Not Listed
• Carbomethoxyethyltrimethoxysilane	76301-00-3	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

Australia - High Volume Industrial Chemicals List

• 3-aminopropyltrimethoxysilane	13822-56-5	Not Listed
• Arien	64742-16-1	Not Listed
• 1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich	68515-48-0	Not Listed
• Silyl-terminated polyether	75009-88-0	Not Listed
• Carbomethoxyethyltrimethoxysilane	76301-00-3	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

Australia - List of Designated Hazardous Substances - Classification

• 3-aminopropyltrimethoxysilane	13822-56-5	Not Listed
• Arien	64742-16-1	Not Listed
• 1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich	68515-48-0	Not Listed
• Silyl-terminated polyether	75009-88-0	Not Listed

• Carbmethoxyethyltrimethoxysilane	76301-00-3	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

Environment

Australia - National Pollutant Inventory (NPI) Substance List

• 3-aminopropyltrimethoxysilane	13822-56-5	Not Listed
• Arien	64742-16-1	Not Listed
• 1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich	68515-48-0	Not Listed
• Silyl-terminated polyether	75009-88-0	Not Listed
• Carbmethoxyethyltrimethoxysilane	76301-00-3	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

Australia - Ozone Protection Act - Scheduled Substances

• 3-aminopropyltrimethoxysilane	13822-56-5	Not Listed
• Arien	64742-16-1	Not Listed
• 1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich	68515-48-0	Not Listed
• Silyl-terminated polyether	75009-88-0	Not Listed
• Carbmethoxyethyltrimethoxysilane	76301-00-3	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

Australia - Priority Existing Chemical Program

• 3-aminopropyltrimethoxysilane	13822-56-5	Not Listed
• Arien	64742-16-1	Not Listed
• 1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich	68515-48-0	Full assessment - report published September 2012
• Silyl-terminated polyether	75009-88-0	Not Listed
• Carbmethoxyethyltrimethoxysilane	76301-00-3	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

Belgium

Labor

Belgium - Substances and Preparations - Carcinogens and Mutagens

• 3-aminopropyltrimethoxysilane	13822-56-5	Not Listed
• Arien	64742-16-1	Not Listed
• 1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich	68515-48-0	Not Listed
• Silyl-terminated polyether	75009-88-0	Not Listed
• Carbmethoxyethyltrimethoxysilane	76301-00-3	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

Bulgaria

Environment

Bulgaria - Air Quality - Maximum Admissible Hazardous Contaminant Levels - 24 Hour

• 3-aminopropyltrimethoxysilane	13822-56-5	Not Listed
• Arien	64742-16-1	Not Listed
• 1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich	68515-48-0	Not Listed
• Silyl-terminated polyether	75009-88-0	Not Listed
• Carbmethoxyethyltrimethoxysilane	76301-00-3	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

Bulgaria - Air Quality - Maximum Admissible Hazardous Contaminant Levels - 30 Minute

• 3-aminopropyltrimethoxysilane	13822-56-5	Not Listed
• Arien	64742-16-1	Not Listed
• 1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich	68515-48-0	Not Listed
• Silyl-terminated polyether	75009-88-0	Not Listed

• Carbmethoxyethyltrimethoxysilane	76301-00-3	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

Bulgaria - Air Quality - Maximum Admissible Hazardous Contaminant Levels - Annual

• 3-aminopropyltrimethoxysilane	13822-56-5	Not Listed
• Arien	64742-16-1	Not Listed
• 1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich	68515-48-0	Not Listed
• Silyl-terminated polyether	75009-88-0	Not Listed
• Carbmethoxyethyltrimethoxysilane	76301-00-3	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

Canada

Labor

Canada - WHMIS - Classifications of Substances

• 3-aminopropyltrimethoxysilane	13822-56-5	B3
• Arien	64742-16-1	Not Listed
• 1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich	68515-48-0	Not Listed
• Silyl-terminated polyether	75009-88-0	Not Listed
• Carbmethoxyethyltrimethoxysilane	76301-00-3	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

Canada - WHMIS - Ingredient Disclosure List

• 3-aminopropyltrimethoxysilane	13822-56-5	Not Listed
• Arien	64742-16-1	Not Listed
• 1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich	68515-48-0	Not Listed
• Silyl-terminated polyether	75009-88-0	Not Listed
• Carbmethoxyethyltrimethoxysilane	76301-00-3	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

Environment

Canada - CEPA - Priority Substances List

• 3-aminopropyltrimethoxysilane	13822-56-5	Not Listed
• Arien	64742-16-1	Not Listed
• 1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich	68515-48-0	Not Listed
• Silyl-terminated polyether	75009-88-0	Not Listed
• Carbmethoxyethyltrimethoxysilane	76301-00-3	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

China

Other

China - Annex I & II - Controlled Chemicals Lists

• 3-aminopropyltrimethoxysilane	13822-56-5	Not Listed
• Arien	64742-16-1	Not Listed
• 1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich	68515-48-0	Not Listed
• Silyl-terminated polyether	75009-88-0	Not Listed
• Carbmethoxyethyltrimethoxysilane	76301-00-3	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

Denmark

Environment

Denmark - List of Undesirable Substances - Product Groups/Function

• 3-aminopropyltrimethoxysilane	13822-56-5	Not Listed
• Arien	64742-16-1	Not Listed

• 1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich	68515-48-0	Not Listed
• Silyl-terminated polyether	75009-88-0	Not Listed
• Carbmethoxyethyltrimethoxysilane	76301-00-3	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

Europe

Other

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

• 3-aminopropyltrimethoxysilane	13822-56-5	Not Listed
• Arien	64742-16-1	Not Listed
• 1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich	68515-48-0	Not Listed
• Silyl-terminated polyether	75009-88-0	Not Listed
• Carbmethoxyethyltrimethoxysilane	76301-00-3	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

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

• 3-aminopropyltrimethoxysilane	13822-56-5	Not Listed
• Arien	64742-16-1	Not Listed
• 1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich	68515-48-0	Not Listed
• Silyl-terminated polyether	75009-88-0	Not Listed
• Carbmethoxyethyltrimethoxysilane	76301-00-3	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

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

• 3-aminopropyltrimethoxysilane	13822-56-5	Not Listed
• Arien	64742-16-1	Not Listed
• 1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich	68515-48-0	Not Listed
• Silyl-terminated polyether	75009-88-0	Not Listed
• Carbmethoxyethyltrimethoxysilane	76301-00-3	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

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

• 3-aminopropyltrimethoxysilane	13822-56-5	Not Listed
• Arien	64742-16-1	Not Listed
• 1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich	68515-48-0	Not Listed
• Silyl-terminated polyether	75009-88-0	Not Listed
• Carbmethoxyethyltrimethoxysilane	76301-00-3	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

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

• 3-aminopropyltrimethoxysilane	13822-56-5	Not Listed
• Arien	64742-16-1	Not Listed
• 1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich	68515-48-0	Not Listed
• Silyl-terminated polyether	75009-88-0	Not Listed
• Carbmethoxyethyltrimethoxysilane	76301-00-3	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

Germany

Labor

Germany - Immission Control - Qualifying Quantities for Major Accident Prevention

• 3-aminopropyltrimethoxysilane	13822-56-5	Not Listed
• Arien	64742-16-1	Not Listed
• 1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich	68515-48-0	Not Listed

• Silyl-terminated polyether	75009-88-0	Not Listed
• Carbmethoxyethyltrimethoxysilane	76301-00-3	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

Germany - Immission Control - Qualifying Quantities for Safety Reporting

• 3-aminopropyltrimethoxysilane	13822-56-5	Not Listed
• Arien	64742-16-1	Not Listed
• 1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich	68515-48-0	Not Listed
• Silyl-terminated polyether	75009-88-0	Not Listed
• Carbmethoxyethyltrimethoxysilane	76301-00-3	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

Germany - TRGS 505 - Specific Lead Regulations

• 3-aminopropyltrimethoxysilane	13822-56-5	Not Listed
• Arien	64742-16-1	Not Listed
• 1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich	68515-48-0	Not Listed
• Silyl-terminated polyether	75009-88-0	Not Listed
• Carbmethoxyethyltrimethoxysilane	76301-00-3	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

Germany - TRGS 511 - Specific Ammonium Nitrate Regulations

• 3-aminopropyltrimethoxysilane	13822-56-5	Not Listed
• Arien	64742-16-1	Not Listed
• 1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich	68515-48-0	Not Listed
• Silyl-terminated polyether	75009-88-0	Not Listed
• Carbmethoxyethyltrimethoxysilane	76301-00-3	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

Environment**Germany - TA Luft - Types and Classes**

• 3-aminopropyltrimethoxysilane	13822-56-5	Not Listed
• Arien	64742-16-1	Not Listed
• 1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich	68515-48-0	Not Listed
• Silyl-terminated polyether	75009-88-0	Not Listed
• Carbmethoxyethyltrimethoxysilane	76301-00-3	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

Germany - TA Luft - Emission Limits for Carcinogenic Substances

• 3-aminopropyltrimethoxysilane	13822-56-5	Not Listed
• Arien	64742-16-1	Not Listed
• 1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich	68515-48-0	Not Listed
• Silyl-terminated polyether	75009-88-0	Not Listed
• Carbmethoxyethyltrimethoxysilane	76301-00-3	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

Germany - TA Luft - Emission Limits for Fibers

• 3-aminopropyltrimethoxysilane	13822-56-5	Not Listed
• Arien	64742-16-1	Not Listed
• 1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich	68515-48-0	Not Listed
• Silyl-terminated polyether	75009-88-0	Not Listed
• Carbmethoxyethyltrimethoxysilane	76301-00-3	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

Germany - TA Luft - Emission Limits for Inorganic Dusts

• 3-aminopropyltrimethoxysilane	13822-56-5	Not Listed
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• Arien	64742-16-1	Not Listed
• 1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich	68515-48-0	Not Listed
• Silyl-terminated polyether	75009-88-0	Not Listed
• Carbmethoxyethyltrimethoxysilane	76301-00-3	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

Germany - TA Luft - Emission Limits for Inorganic Gases

• 3-aminopropyltrimethoxysilane	13822-56-5	Not Listed
• Arien	64742-16-1	Not Listed
• 1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich	68515-48-0	Not Listed
• Silyl-terminated polyether	75009-88-0	Not Listed
• Carbmethoxyethyltrimethoxysilane	76301-00-3	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

Germany - TA Luft - Emission Limits for Organic Substances

• 3-aminopropyltrimethoxysilane	13822-56-5	Not Listed
• Arien	64742-16-1	Not Listed
• 1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich	68515-48-0	Not Listed
• Silyl-terminated polyether	75009-88-0	Not Listed
• Carbmethoxyethyltrimethoxysilane	76301-00-3	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

Germany - Water Classification (VwVwS) - Annex 1

• 3-aminopropyltrimethoxysilane	13822-56-5	Not Listed
• Arien	64742-16-1	Not Listed
• 1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich	68515-48-0	Not Listed
• Silyl-terminated polyether	75009-88-0	Not Listed
• Carbmethoxyethyltrimethoxysilane	76301-00-3	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes

• 3-aminopropyltrimethoxysilane	13822-56-5	Not Listed
• Arien	64742-16-1	Not Listed
• 1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich	68515-48-0	ID Number 1295, hazard class 1 - low hazard to waters
• Silyl-terminated polyether	75009-88-0	Not Listed
• Carbmethoxyethyltrimethoxysilane	76301-00-3	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

Germany - Water Classification (VwVwS) - Annex 3

• 3-aminopropyltrimethoxysilane	13822-56-5	ID Number 7587, hazard class 1 - low hazard to waters
• Arien	64742-16-1	Not Listed
• 1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich	68515-48-0	Not Listed
• Silyl-terminated polyether	75009-88-0	Not Listed
• Carbmethoxyethyltrimethoxysilane	76301-00-3	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

United States**Labor****U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals**

• 3-aminopropyltrimethoxysilane	13822-56-5	Not Listed
• Arien	64742-16-1	Not Listed
• 1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich	68515-48-0	Not Listed
• Silyl-terminated polyether	75009-88-0	Not Listed

• Carbmethoxyethyltrimethoxysilane	76301-00-3	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

• 3-aminopropyltrimethoxysilane	13822-56-5	Not Listed
• Arien	64742-16-1	Not Listed
• 1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich	68515-48-0	Not Listed
• Silyl-terminated polyether	75009-88-0	Not Listed
• Carbmethoxyethyltrimethoxysilane	76301-00-3	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

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

• 3-aminopropyltrimethoxysilane	13822-56-5	Not Listed
• Arien	64742-16-1	Not Listed
• 1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich	68515-48-0	Not Listed
• Silyl-terminated polyether	75009-88-0	Not Listed
• Carbmethoxyethyltrimethoxysilane	76301-00-3	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

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

• 3-aminopropyltrimethoxysilane	13822-56-5	Not Listed
• Arien	64742-16-1	Not Listed
• 1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich	68515-48-0	Not Listed
• Silyl-terminated polyether	75009-88-0	Not Listed
• Carbmethoxyethyltrimethoxysilane	76301-00-3	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

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

• 3-aminopropyltrimethoxysilane	13822-56-5	Not Listed
• Arien	64742-16-1	Not Listed
• 1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich	68515-48-0	Not Listed
• Silyl-terminated polyether	75009-88-0	Not Listed
• Carbmethoxyethyltrimethoxysilane	76301-00-3	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

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

• 3-aminopropyltrimethoxysilane	13822-56-5	Not Listed
• Arien	64742-16-1	Not Listed
• 1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich	68515-48-0	Not Listed
• Silyl-terminated polyether	75009-88-0	Not Listed
• Carbmethoxyethyltrimethoxysilane	76301-00-3	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

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

• 3-aminopropyltrimethoxysilane	13822-56-5	Not Listed
• Arien	64742-16-1	Not Listed
• 1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich	68515-48-0	Not Listed
• Silyl-terminated polyether	75009-88-0	Not Listed
• Carbmethoxyethyltrimethoxysilane	76301-00-3	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

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

• 3-aminopropyltrimethoxysilane	13822-56-5	Not Listed
• Arien	64742-16-1	Not Listed

• 1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich	68515-48-0	Not Listed
• Silyl-terminated polyether	75009-88-0	Not Listed
• Carbmethoxyethyltrimethoxysilane	76301-00-3	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

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

• 3-aminopropyltrimethoxysilane	13822-56-5	Not Listed
• Arien	64742-16-1	Not Listed
• 1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich	68515-48-0	Not Listed
• Silyl-terminated polyether	75009-88-0	Not Listed
• Carbmethoxyethyltrimethoxysilane	76301-00-3	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Basis for Listing - Appendix VII

• 3-aminopropyltrimethoxysilane	13822-56-5	Not Listed
• Arien	64742-16-1	Not Listed
• 1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich	68515-48-0	Not Listed
• Silyl-terminated polyether	75009-88-0	Not Listed
• Carbmethoxyethyltrimethoxysilane	76301-00-3	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR Rule - Universal Treatment Standards

• 3-aminopropyltrimethoxysilane	13822-56-5	Not Listed
• Arien	64742-16-1	Not Listed
• 1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich	68515-48-0	Not Listed
• Silyl-terminated polyether	75009-88-0	Not Listed
• Carbmethoxyethyltrimethoxysilane	76301-00-3	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Acutely Toxic Wastes & Other Hazardous Characteristics

• 3-aminopropyltrimethoxysilane	13822-56-5	Not Listed
• Arien	64742-16-1	Not Listed
• 1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich	68515-48-0	Not Listed
• Silyl-terminated polyether	75009-88-0	Not Listed
• Carbmethoxyethyltrimethoxysilane	76301-00-3	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

United States - California

Environment

U.S. - California - Proposition 65 - Carcinogens List

• 3-aminopropyltrimethoxysilane	13822-56-5	Not Listed
• Arien	64742-16-1	Not Listed
• 1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich	68515-48-0	Not Listed
• Silyl-terminated polyether	75009-88-0	Not Listed
• Carbmethoxyethyltrimethoxysilane	76301-00-3	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

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

• 3-aminopropyltrimethoxysilane	13822-56-5	Not Listed
• Arien	64742-16-1	Not Listed
• 1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich	68515-48-0	Not Listed
• Silyl-terminated polyether	75009-88-0	Not Listed
• Carbmethoxyethyltrimethoxysilane	76301-00-3	Not Listed

• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed
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U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

• 3-aminopropyltrimethoxysilane	13822-56-5	Not Listed
• Arien	64742-16-1	Not Listed
• 1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich	68515-48-0	Not Listed
• Silyl-terminated polyether	75009-88-0	Not Listed
• Carbmethoxyethyltrimethoxysilane	76301-00-3	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

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

• 3-aminopropyltrimethoxysilane	13822-56-5	Not Listed
• Arien	64742-16-1	Not Listed
• 1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich	68515-48-0	Not Listed
• Silyl-terminated polyether	75009-88-0	Not Listed
• Carbmethoxyethyltrimethoxysilane	76301-00-3	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

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

• 3-aminopropyltrimethoxysilane	13822-56-5	Not Listed
• Arien	64742-16-1	Not Listed
• 1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich	68515-48-0	Not Listed
• Silyl-terminated polyether	75009-88-0	Not Listed
• Carbmethoxyethyltrimethoxysilane	76301-00-3	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

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

• 3-aminopropyltrimethoxysilane	13822-56-5	Not Listed
• Arien	64742-16-1	Not Listed
• 1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich	68515-48-0	Not Listed
• Silyl-terminated polyether	75009-88-0	Not Listed
• Carbmethoxyethyltrimethoxysilane	76301-00-3	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

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

• 3-aminopropyltrimethoxysilane	13822-56-5	Not Listed
• Arien	64742-16-1	Not Listed
• 1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich	68515-48-0	Not Listed
• Silyl-terminated polyether	75009-88-0	Not Listed
• Carbmethoxyethyltrimethoxysilane	76301-00-3	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	Not Listed

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

• 3-aminopropyltrimethoxysilane	13822-56-5	Not Listed
• Arien	64742-16-1	Not Listed
• 1,2-Benzenedicarboxylic acid, di-C8-C10-branched alkyl ester, C9-rich	68515-48-0	Not Listed
• Silyl-terminated polyether	75009-88-0	Not Listed
• Carbmethoxyethyltrimethoxysilane	76301-00-3	Not Listed
• Dibutyltin Diacetyldiacetate	22673-19-4	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 birth defects or other reproductive harm.

Section 16 - Other Information

Revision Date

- 30/March/2016

Preparation Date

- 30/March/2016

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, LLC 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