

Safety Data Sheet

Firestone Building Products Company

Section 1: Identification

Product identifier

Product Name • **I.S.O. Stick™ Insulation Adhesive Winter Grade Part 2**

Synonyms • Polyol portion of two component polyurethane adhesive

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

Recommended use • Polyol portion of two component polyurethane adhesive. To dispense: properly mix with I.S.O. Stick™ Insulation Winter Grade Part 1

Restrictions on use • Proper dispensing requires mixing with I.S.O. Stick™ Insulation Winter Grade Part 1

Details of the supplier of the safety data sheet

Manufacturer • Firestone Building Products Company
200 4th Avenue S
Nashville, TN 37201-2208
United States

firestonemsds@bfdp.com

Telephone (General) • 800-428-4442

Emergency telephone number

Manufacturer • (800) 424-9300 - CHEMTREC

Manufacturer • (703) 527-3887 - CHEMTREC - International

Section 2: Hazard Identification

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

OSHA HCS 2012 • Eye Irritation 2
Specific Target Organ Toxicity Repeated Exposure 2

Label elements

OSHA HCS 2012

WARNING



Hazard statements • Causes serious eye irritation

Precautionary statements

Prevention • Do not breathe mist, vapours and/or spray.
Wash thoroughly after handling.
Wear eye/face protection , .

- Response** • 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.
Get medical advice/attention if you feel unwell.

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

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 2015

Classification of the substance or mixture

WHMIS 2015

- Eye Irritation 2
- Specific Target Organ Toxicity Repeated Exposure 2

Label elements

WHMIS 2015

WARNING



- Hazard statements** • Causes serious eye irritation
May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

- Prevention** • Do not breathe mist, vapours and/or spray.
Wash thoroughly after handling.
Wear eye/face protection , .
- Response** • 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.
Get medical advice/attention if you feel unwell.
- Storage/Disposal** • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Other hazards

WHMIS 2015

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

Section 3 - Composition/Information on Ingredients

Substances

- Material does not meet the criteria of a substance.

Mixtures

Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments

Diethylene Glycol	CAS:111-46-6	< 15%	Skin-Rabbit LD50 • 11890 mg/kg Ingestion/Oral-Rat LD50 • 12000 mg/kg	OSHA HCS 2012: Eye Irrit. 2 WHMIS 2015: Eye Irrit. 2	NDA
Dipropylene Glycol	CAS:25265-71 -8	< 10%	Ingestion/Oral-Rat LD50 • 14850 mg/kg Skin-Rabbit LD50 • >20 mL/kg	OSHA HCS 2012: Eye Irrit. 2 WHMIS 2015: Eye Irrit. 2	NDA

Section 4: First-Aid Measures

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. Do NOT induce vomiting. Do not give anything by mouth to an unconscious person. Get medical attention immediately.

Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

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: Fire-Fighting Measures

Extinguishing media

- Suitable Extinguishing Media**
- Water, foam, dry chemical, carbon dioxide (CO₂).

- Unsuitable Extinguishing Media**
- Do not use a direct stream of water.

Special hazards arising from the substance or mixture

- Unusual Fire and Explosion Hazards**
- This product may ignite if exposed to sources of ignition at temperatures in excess of its flash point.
- Hazardous Combustion Products**
- If present in a fire or explosion, potential thermal decomposition byproducts include carbon monoxide, smoke, and irritant decomposition byproducts.

Advice for firefighters

- Structural firefighters' protective clothing will only provide limited protection. Wear positive pressure self-contained breathing apparatus (SCBA).
SMALL FIRES: Move containers from fire area if you can do it without risk.
LARGE FIRES: Cool containers with flooding quantities of water until well after fire is out.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

- Personal Precautions**
- Do not walk through spilled material. Wear appropriate personal protective equipment, avoid direct contact. Avoid contact with skin and eyes.

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.

Environmental precautions

- Prevent entry into waterways and sewers.

Methods and material for containment and cleaning up**Containment/Clean-up Measures**

- Absorb spilled material with a sorbent such as sawdust, vermiculite, or calcium silicate hydrate.
When absorbed, transfer to an impervious container.
Dike to collect large liquid spills.

Section 7 - Handling and Storage**Precautions for safe handling****Handling**

- Use only in well ventilated areas. Wear appropriate personal protective equipment, avoid direct contact. Do not breathe mist, vapours and/or spray. Avoid contact with skin, eyes, and clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Containers should be kept tightly closed to prevent contact with moisture and other chemicals. Do not reuse empty containers for any purpose.

Conditions for safe storage, including any incompatibilities**Storage**

- Store containers tightly sealed in original containers in a dry, well ventilated area away from incompatible materials. Store between 55 - 85 °F (12.8 - 29.4 °C)

Section 8 - Exposure Controls/Personal Protection**Control parameters****Exposure Limits/Guidelines**

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

Exposure controls**Engineering Measures/Controls**

- This adhesive is designed to be used outdoors, in roofing applications. 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 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

- In case of spills, keep product clear of sewers, waterways or land areas. Dispose of waste product in accordance with national and local laws and regulations.

Section 9 - Physical and Chemical Properties**Information on Physical and Chemical Properties**

Material Description			
Physical Form	Liquid	Appearance/Description	Red liquid with a mildly sweet odor.
Color	Red	Odor	Mildly sweet.
Odor Threshold	No data available		

General Properties

Boiling Point	No data available	Melting Point/Freezing Point	No data available
Decomposition Temperature	No data available	pH	No data available
Specific Gravity/Relative Density	= 1.02 Water=1	Water Solubility	Appreciable 10 to 99 %
Viscosity	300 Centipoise (cPs, cP) or mPas		

Volatility

Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available		

Flammability

Flash Point	191 °C(375.8 °F)	UEL	No data available
LEL	No data available	Autoignition	No data available
Flammability (solid, gas)	No data available		

Environmental

Octanol/Water Partition coefficient	No data available		
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Section 10: Stability and Reactivity**Reactivity**

- No dangerous reaction known under conditions of normal use.

Chemical stability

- Stable

Possibility of hazardous reactions

- Hazardous polymerization will not occur.

Conditions to avoid

- High temperatures.

Incompatible materials

- Oxidizing agents.

Hazardous decomposition products

- Carbon monoxide; carbon dioxide; smoke; irritant decomposition byproducts.

Section 11 - Toxicological Information**Information on toxicological effects**

Components		
Diethylene Glycol (< 15%)	111-46-6	Acute Toxicity: Ingestion/Oral-Rat LD50 • 12000 mg/kg; <i>Brain and Coverings:Other degenerative changes; Liver:Other changes; Kidney, Ureter, and Bladder:Other changes;</i> Skin-Rabbit LD50 • 11890 mg/kg; Irritation: Eye-Rabbit • 50 mg • Mild irritation; Skin-Rabbit • 500 mg • Mild irritation; Tumorigen / Carcinogen: Ingestion/Oral-Rat • 584 g/kg 2 Year(s)-Continuous; <i>Tumorigenic:Equivocal tumorigenic agent by RTECS criteria; Kidney, Ureter, and Bladder:Tumors;</i> Inhalation-Mouse TCLo • 4 mg/m ³ 2 Hour(s) 30 Week(s) -Intermittent; <i>Tumorigenic:Carcinogenic by RTECS criteria; Blood:Lymphoma, including Hodgkin's disease; Skin and Appendages:Other:Tumors</i>
Dipropylene Glycol (< 10%)	25265-71-8	Acute Toxicity: Ingestion/Oral-Rat LD50 • 14850 mg/kg; Skin-Rabbit LD50 • >20 mL/kg; Multi-dose Toxicity: Ingestion/Oral-Rat TDLo • 812 g/kg 58 Week(s)-Intermittent; <i>Nutritional and Gross Metabolic:Gross Metabolite Changes:Weight loss or decreased weight gain; Kidney, Ureter, and Bladder:Changes in both tubules and glomeruli; Related to Chronic Data:Death in the Other Multiple Dose data type field;</i> Ingestion/Oral-Rat TDLo • 1700900 mg/kg 2 Year(s)-Intermittent; <i>Sense Organs and Special Senses:Olfaction:Other changes; Gastrointestinal:Changes in structure or function of salivary glands; Nutritional and Gross Metabolic:Gross Metabolite Changes:Weight loss or decreased weight gain</i>

GHS Properties	Classification
Acute toxicity	OSHA HCS 2012 • No data available WHMIS 2015 • No data available
Skin corrosion/Irritation	OSHA HCS 2012 • No data available WHMIS 2015 • No data available
Serious eye damage/Irritation	OSHA HCS 2012 • Eye Irritation 2 WHMIS 2015 • Eye Irritation 2
Skin sensitization	OSHA HCS 2012 • No data available WHMIS 2015 • No data available
Respiratory sensitization	OSHA HCS 2012 • No data available WHMIS 2015 • No data available
Aspiration Hazard	OSHA HCS 2012 • No data available WHMIS 2015 • No data available
Carcinogenicity	OSHA HCS 2012 • No data available WHMIS 2015 • No data available
Germ Cell Mutagenicity	OSHA HCS 2012 • No data available WHMIS 2015 • No data available
Toxicity for Reproduction	OSHA HCS 2012 • No data available WHMIS 2015 • No data available
STOT-SE	OSHA HCS 2012 • No data available WHMIS 2015 • No data available
STOT-RE	OSHA HCS 2012 • Specific Target Organ Toxicity Repeated Exposure 2 WHMIS 2015 • Specific Target Organ Toxicity Repeated Exposure 2

Potential Health Effects

Inhalation

Acute (Immediate)

- Inhalation of toxicologically-significant quantities of ingredients is unlikely when the product is used in a well-ventilated area and in accordance with instructions.

Chronic (Delayed)

- No data available

Skin

Acute (Immediate)

- May cause mild irritation.

Chronic (Delayed)

- No data available

Eye

Acute (Immediate)

- Causes serious eye irritation.

Chronic (Delayed)

- No data available

Ingestion

Acute (Immediate)

- The product is nontoxic by ingestion, but ingestion may cause nausea, vomiting, and/or gastrointestinal irritation.

Chronic (Delayed)

- Long-term chronic ingestion may damage the kidneys and the gastrointestinal system.

Key to abbreviations

LD = Lethal Dose

TD = Toxic Dose

Section 12 - Ecological Information

Toxicity

- No ecotoxicity data is available for the product or its components.

Persistence and degradability

- No ecotoxicity data is available for the product or its components.

Bioaccumulative potential

- No ecotoxicity data is available for the product or its components.

Mobility in Soil

- No ecotoxicity data is available for the product or its components.

Other adverse effects

- No ecotoxicity data is available for the product or its components.

Section 13 - Disposal Considerations

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

	UN number	UN proper shipping name	Transport hazard class (es)	Packing group	Environmental hazards
DOT	Not Applicable	Not Regulated	Not Applicable	Not Applicable	NDA
TDG	Not Applicable	Not Regulated	Not Applicable	Not Applicable	NDA
IMO/IMDG	Not Applicable	Not Regulated	Not Applicable	Not Applicable	NDA
IATA/ICAO	Not Applicable	Not Regulated	Not Applicable	Not Applicable	NDA

Special precautions for user • None specified.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code • No data available

Section 15 - Regulatory Information

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

SARA Hazard Classifications • Acute, Chronic

State Right To Know				
Component	CAS	MA	NJ	PA
Diethylene Glycol	111-46-6	No	No	Yes
Dipropylene Glycol	25265-71-8	No	No	Yes

Inventory				
Component	CAS	Canada DSL	Canada NDSL	TSCA
Diethylene Glycol	111-46-6	Yes	No	Yes
Dipropylene Glycol	25265-71-8	Yes	No	Yes

Canada

Labor

Canada - WHMIS 1988 - Classifications of Substances

• Diethylene Glycol	111-46-6	D1B
• Dipropylene Glycol	25265-71-8	Not Listed

Canada - WHMIS 1988 - Ingredient Disclosure List

• Diethylene Glycol	111-46-6	Not Listed
• Dipropylene Glycol	25265-71-8	Not Listed

Environment

Canada - CEPA - Priority Substances List

• Diethylene Glycol	111-46-6	Not Listed
• Dipropylene Glycol	25265-71-8	Not Listed

United States

Labor

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

• Diethylene Glycol	111-46-6	Not Listed
• Dipropylene Glycol	25265-71-8	Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

• Diethylene Glycol	111-46-6	Not Listed
• Dipropylene Glycol	25265-71-8	Not Listed

Environment

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

• Diethylene Glycol	111-46-6	Not Listed
• Dipropylene Glycol	25265-71-8	Not Listed

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

• Diethylene Glycol	111-46-6	Not Listed
• Dipropylene Glycol	25265-71-8	Not Listed

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

• Diethylene Glycol	111-46-6	Not Listed
• Dipropylene Glycol	25265-71-8	Not Listed

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

• Diethylene Glycol	111-46-6	Not Listed
• Dipropylene Glycol	25265-71-8	Not Listed

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

• Diethylene Glycol	111-46-6	Not Listed
• Dipropylene Glycol	25265-71-8	Not Listed

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

• Diethylene Glycol	111-46-6	Not Listed
• Dipropylene Glycol	25265-71-8	Not Listed

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

• Diethylene Glycol	111-46-6	Not Listed
• Dipropylene Glycol	25265-71-8	Not Listed

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

• Diethylene Glycol	111-46-6	Not Listed
• Dipropylene Glycol	25265-71-8	Not Listed

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

• Diethylene Glycol	111-46-6	Not Listed
• Dipropylene Glycol	25265-71-8	Not Listed

U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

• Diethylene Glycol	111-46-6	Not Listed
• Dipropylene Glycol	25265-71-8	Not Listed

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

• Diethylene Glycol	111-46-6	Not Listed
• Dipropylene Glycol	25265-71-8	Not Listed

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

• Diethylene Glycol	111-46-6	Not Listed
• Dipropylene Glycol	25265-71-8	Not Listed

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

• Diethylene Glycol	111-46-6	Not Listed
• Dipropylene Glycol	25265-71-8	Not Listed

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

• Diethylene Glycol	111-46-6	Not Listed
• Dipropylene Glycol	25265-71-8	Not Listed

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

• Diethylene Glycol	111-46-6	Not Listed
• Dipropylene Glycol	25265-71-8	Not Listed

Section 16 - Other Information**Revision Date**

- 22/February/2018

Preparation Date

- 22/February/2018

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