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SECTION 1: Identification of the substance/mixture and of the company/undertaking

PRODUCT FORM	Mixture
PRODUCT NAME	TopSpec™ #701 All Weather Flashing Cement
PRODUCT CODE	TRO-701
FORMULA	700-TRO-701

Use of the substance/mixture Roofing/Waterproofing

MANUFACTURER: TROPICAL ROOFING PRODUCTS
1904 S.W. 31ST Ave.
HALLANDALE, FL 33009 - UNITED STATES
T 954-983-343
technical@tropicalroofingproducts.com - www.tropicalroofingproducts.com

Emergency Number: 800-424-9300 — Chemtrec

2.1. Classification of the substance or mixture

GHS-US Classification	
Flam. Liq. 2	H225
Muta. 1B	H340
Carc. 1B	H350
STOT RE 1	H372

Full text of H-phrases: see section 16

GHS-US LABELLING:	0
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HAZARD PICTOGRAMS (GHS-US):



SIGNAL WORD (GHS-US):

Warning

HAZARD STATEMENTS (GHS-US):

H225 - Highly flammable liquid and vapour
H340 - May cause genetic defects (Dermal, Inhalation)
H350 - May cause cancer (Inhalation, Dermal)
H372 - Causes damage to organs (central nervous system, eye, Skin, lung, liver) through prolonged or repeated exposure (Dermal, Inhalation)

PRECAUTIONARY STATEMENTS (GHS-US):

P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P210 - Keep away from open flames. - No smoking
P233 - Keep container tightly closed
P240 - Ground/bond container and receiving equipment
P242 - Use only non-sparking tools
P243 - Take precautionary measures against static discharge
P260 - Do not breathe fume, gas, vapours
P264 - Wash hands thoroughly after handling

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(Continued) PRECAUTIONARY STATEMENTS (GHS-US):

- P270 - Do not eat, drink or smoke when using this product
- P280 - Wear protective gloves, protective clothing
- P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
- P308+P313 - If exposed or concerned: Get medical advice/attention
- P314 - Get medical advice/attention if you feel unwell
- P370+P378 - In case of fire: Use carbon dioxide (CO2), foam, dry extinguishing powder to extinguish
- P403+P235 - Store in a well-ventilated place. Keep cool
- P405 - Store locked up
- P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste

2.3. Other hazards

Other hazards not contributing to the classification: None under normal conditions.

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on Ingredients

3.1. Substance

Not applicable

3.2. Mixture

CHEMICAL NAME	IDENTIFIERS	%(WEIGHT)	GHS-US Classification
Asphaltic Bitumen, not cut back	(CAS No) 8052-42-4	60 - 80	Not classified
Kaolin	(CAS No) 1332-58-7	15 - 30	Not classified
Stoddard Solvent	(CAS No) 8052-41-3	20 - 25	Muta. 1B, H340 Carc. 1B, H350 STOT RE 1, H372 Asp. Tox. 1, H304
Attapulgitte	(CAS No) 12174-11-7	5 - 10	Carc. 2, H351
Cellulose	(CAS No) 9004-34-6	3 - 7	Not classified

See Section 11 for full text of H-phrases

*The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200

SECTION 4: First Aid Measures

4.1. Description of first aid measures

First-aid measures general:

Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible)

First-aid measures after Inhalation:

Allow victim to breathe fresh air. Allow the victim to rest

First-aid measures after Skin contact:

Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse

First-aid measures after Eye contact:

Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist

First-aid measures after Ingestion:

Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries:

There are potential chronic health effects to consider

Symptoms/injuries after inhalation:

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. May cause an allergic skin reaction

Symptoms/injuries after skin contact:

Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse

First-aid measures after Eye contact:

Eye irritation

First-aid measures after Ingestion:

Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention

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4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire Fighting Measures

5.1. Extinguishing media

Suitable extinguishing media	Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard	Combustible liquid.
Explosion hazard	Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. May form flammable/explosive vapour-air mixture.
Reactivity	Upon combustion: CO and CO ₂ are formed.

5.3. Advice for firefighters

Firefighting Instructions	Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection During Firefighting	Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	Absorb spillage to prevent material damage. Isolate from fire, if possible, without unnecessary risk. No flames, no sparks. Eliminate all sources of ignition. Remove ignition sources.
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6.1.1. For non-emergency personnel

Protective equipment	Protective clothing. Gloves.
Emergency procedures	Stop release

6.1.2. For emergency responders

Protective equipment	Use personal protective equipment as required.
Emergency procedures	Stop release.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment	Collect spillage.
Methods for cleaning up	Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and Storage

7.1. Precautions for safe handling

Precautions for safe handling	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Eliminate all ignition sources if safe to do so. Do not breathe fume, spray, vapours
Handling Temperature	< 110 (≤ 100) °F
Hygiene Measures	Do not eat, drink or smoke when using this product. Wash Always wash hands after handling the product, Do not eat, drink or smoke when using this product, Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work thoroughly after handling.

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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use. Keep container closed when not in use.
Incompatible products	Strong bases. Strong acids.
Incompatible materials	Sources of ignition.
Storage temperature	< 43 °C
Heat and ignition sources	KEEP SUBSTANCE AWAY FROM: ignition sources.
Prohibitions on mixed storage	No data available.
Storage area	Meet the legal requirements.
Special rules on packaging	Keep only in original container. meet the legal requirements. Store in a closed container. correctly labelled.
Packaging materials	No data available.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure Controls / Personal Protection

8.1. Control parameters

TopSpec® #701 All Weather Flashing Cements		
ACGIH	Not Applicable	
TopSpec® #701 All Weather Flashing Cements		
OSHA	Not Applicable	
asphaltic bitumen, not cut back (8052-42-4)		
OSHA	Not Applicable	
attapulgate (12174-11-7)		
ACGIH	Not Applicable	
OSHA	Not Applicable	
cellulose (9004-34-6)		
OSHA	Not Applicable	
kaolin (1332-58-7)		
OSHA	Not applicable	

8.2. Exposure controls

Personal protective equipment	Avoid all unnecessary exposure.
Materials for protective clothing	PICM010.
Hand protection	Wear protective gloves.
Eye protection	Chemical goggles or safety glasses.
Skin and body protection	Wear suitable protective clothing.
Respiratory protection	Wear appropriate mask.
Other information	Do not eat, drink or smoke during use.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical State	Liquid	Vapour Pressure	0.293 kPa at 20 C
Appearance	Black Fibered Mastic	Relative Vapour Density	No data available

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Colour	Black	Relative Density	1.02 - 1.12
Odour	Petroleum-like odour	Density	8.5 - 9.3
Odour Threshold	No data available	Percent Solids	> 75 %
PH	No data available	Solubility	Water: 0 % Acetone: ≈ g/100ml Organic solvent: ≈ 100 %
Relative Evaporation Rate (Butylacetate=1)	No data available		
Melting Point	No data available	Log Pow	No data available
Freezing Point	No data available	Log Kow	No data available
Boiling Point	> 300 (≤ 450) °F	Viscosity, Kinematic	No data available
Flash Point	106 °F	Viscosity, Dynamic	No data available
Auto-Ignition Temperature	No data available	Explosive Properties	No data available.
Decomposition Temperature	No data available	Oxidising Properties	No data available.
Flammability (Solid, Gas)	No data available	Explosive Limits	No data available

9.2. Other information

VOC content < 250 (≤ 250) g/l

SECTION 10: Stability and Reactivity
10.1. Reactivity

 Upon combustion: CO and CO₂ are formed.

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

No flames, no sparks. Eliminate all sources of ignition. Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological Information
11.1. Information on toxicological effects

 Acute toxicity Not classified
(Lack of data)

asphaltic bitumen, not cut back (8052-42-4)	
LD50 oral rat	> 2000 mg/kg (Rat)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit)
cellulose (9004-34-6)	
LD50 oral rat	> 5000 mg/kg (Rat)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	> 6 mg/l/4h (Rat)

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Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitisation	Not classified
Germ cell mutagenicity	May cause genetic defects (Dermal, Inhalation)
Carcinogenicity	May cause cancer (Inhalation, Dermal)

asphaltic bitumen, not cut back (8052-42-4)	
IARC group	3 - Not classifiable

attapulgit (12174-11-7)	
IARC group	2B - Possibly carcinogenic to humans, 3 - Not classifiable

Reproductive toxicity	Not classified
Specific target organ toxicity (single exposure)	Not classified
Specific target organ toxicity (repeated exposure)	Causes damage to organs (central nervous system, eye, Skin, lung, liver) through prolonged or repeated exposure (Dermal, Inhalation).
Aspiration hazard	Not classified
Potential adverse human health effects and symptoms	Based on available data, the classification criteria are not met.
Symptoms/injuries after inhalation	May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. May cause an allergic skin reaction.
Symptoms/injuries after skin contact	May cause an allergic skin reaction. May cause moderate irritation.
Symptoms/injuries after eye contact	Eye irritation.
Symptoms/injuries after ingestion	No data available.

SECTION 12: Ecological Information
12.1. Toxicity

asphaltic bitumen, not cut back (8052-42-4)	
LC50 fish 1	> 1000 mg/l (96 h; Pisces)
LC50 other aquatic organisms 1	> 1000 mg/l (96 h)
Threshold limit other aquatic organisms 1	> 1000 mg/l (96 h)

cellulose (9004-34-6)	
LC50 fish 1	> 100 mg/l (Pisces)
EC50 Daphnia 1	> 100 mg/l (Invertebrata)
Threshold limit algae 1	> 100 mg/l (Algae)

12.2. Persistence and degradability

TopSpec® #501 All Weather Premium Roof Mastic	
Persistence and degradability	Not established

asphaltic bitumen, not cut back (8052-42-4)	
Persistence and degradability	Not readily biodegradable in water

attapulgit (12174-11-7)	
Persistence and degradability	Biodegradability: not applicable. No (test)data on mobility of the substance available.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

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cellulose (9004-34-6)	
Persistence and degradability	Biodegradable in water
kaolin (1332-58-7)	
Persistence and degradability	Biodegradability: not applicable.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

12.3. Bioaccumulative potential

TopSpec #701 All Weather Flashing Cement	
BCF fish 1	>
TopSpec #701 All Weather Flashing Cement	
Bioaccumulative potential	Not established
asphaltic bitumen, not cut back (8052-42-4)	
Log Pow	> 6 (Calculated)
Bioaccumulative potential	Not bioaccumulative.
attapulgate (12174-11-7)	
Bioaccumulative potential	No bioaccumulation data available.
cellulose (9004-34-6)	Remark (ACGIH)
Bioaccumulative potential	Bioaccumulation: not applicable.
kaolin (1332-58-7)	OSHA PEL (TWA) (ppm)
Bioaccumulative potential	No bioaccumulation data available.
Stoddard solvent (8052-41-3)	
Log Pow	3.16-7.06

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Effect on ozone layer	
Effect on the global warming	No known ecological damage caused by this product.
Other information	Avoid release to the environment

SECTION 13: Disposal Considerations
13.1. Waste treatment methods

Waste treatment methods	Dispose of contents/container in accordance with licensed collector's sorting instructions.
Waste disposal recommendations	Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to Remove waste in accordance with local and/or national regulations.
Additional information	Industrial waste.
Ecology - waste materials	Avoid release to the environment.

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SECTION 14: Transport Information

In accordance with DOT

Transport document description

Combustible Liquid - DOT 49 CFR 173.150 SUB.PAR.F. Unregulated, III

UN-No.(DOT)

Combustible Liquid - DOT 49 CFR 173.150 SUB.PAR.F. Unregulated, III

Packing group (DOT)

III - Minor Danger

Additional information

Other information

No supplementary information available

ADR	No Additional information
Transport by sea	No Additional information
Air transport	No Additional information

SECTION 15: Regulatory Information
15.1. US Federal regulations

TopSpec #701 All Weather Flashing Cement
Not listed on the United States SARA Section 313
asphaltic bitumen, not cut back (8052-42-4)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
attapulgate (12174-11-7)
Not listed on the United States TSCA (Toxic Substances Control Act) inventory
cellulose (9004-34-6)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
kaolin (1332-58-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Stoddard solvent (8052-41-3)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations
CANADA

No additional information available

EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]
Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

15.2.2. National regulations
15.3. US State regulations

TopSpec #701 All Weather Flashing Cement()	
U.S. - California - Proposition 65 - Carcinogens List	Yes
U.S. - California - Proposition 65 - Developmental Toxicity	No
U.S. - California - Proposition 65 - Reproductive Toxicity - Female	No
U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No

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attapulgit (12174-11-7)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Propo- sition 65 - Reproductive Toxicity - Female	U.S. - California - Propo- sition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
Yes	No	No	No	

asphaltic bitumen, not cut back (8052-42-4)
U.S. - New Jersey - Right to Know Hazardous Substance List
cellulose (9004-34-6)
U.S. - New Jersey - Right to Know Hazardous Substance List
kaolin (1332-58-7)
U.S. - New Jersey - Right to Know Hazardous Substance List
Stoddard solvent (8052-41-3)
U.S. - New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other Information

Other information: None

Full text of H-phrases:	
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 1B	Carcinogenicity, Category 1B
Carc. 2	Carcinogenicity, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Muta. 1B	Germ cell mutagenicity, Category 1B
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
H225	Highly flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H340	May cause genetic defects
H350	May cause cancer
H351	Suspected of causing cancer
H372	Causes damage to organs through prolonged or repeated exposure

HMIS III Rating

Health	2 Moderate Hazard - Temporary or minor injury may occur
Flammability	2 Moderate Hazard
Physical	0 Minimal Hazard
Personal Protection	p

ZLF-PMS 364 CUSTOM TEMPLATE

All information contained in this MSDS is based on current technical data believed to be accurate and reliable. Additions of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since these conditions are outside our control, we furnish this MSDS without any express or implied warranties.