Tropical - #951 ETERNAPATCH White Elastomeric Roof Patch

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 05/18/2015

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

1.1. Product identifier

Product form : Mixture

Product name : Tropical - #951 ETERNAPATCH White Elastomeric Roof Patch

Product code : TRO-951

Formula : 700-TRO-951

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

Use of the substance/mixture : Elastomeric Roof Coating

1.3. Details of the supplier of the safety data sheet

TROPICAL ROOFING PRODUCTS
1904 S.W. 31ST Ave.
HALLANDALE, FL 33009 - UNITED STATES
T 954-983-3434
technical@tropicalroofingproducts.com - www.tropicalroofingproducts.com

1.4. Emergency telephone number

Emergency number : 800-424-9300
Chemtrec

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Skin Corr. 1C	H314
Muta. 2	H341
Aquatic Chronic 1	H410

Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labelling

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Hazard pictograms (GHS-US) :

GHS05 GHS08 GHS09

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H302 - Harmful if swallowed
H317 - May cause an allergic skin reaction
H320 - Causes eye irritation
H413 - May cause long lasting harmful effects to aquatic life

Precautionary statements (GHS-US) : P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P264 - Wash hands, forearms and face thoroughly after handling
P273 - Avoid release to the environment
P280 - Wear protective gloves, eye protection
P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P308+P313 - If exposed or concerned: Get medical advice/attention
P310 - Immediately call a doctor, a POISON CENTER
P321 - Specific treatment (see eye protection, protective gloves, a POISON CENTER, a doctor on this label)
P363 - Wash contaminated clothing before reuse

P391 - Collect spillage
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

Name	Product identifier	%	GHS-US classification
Water	(CAS No) 7732-18-5	22 - 32	Not classified
calcium carbonate	(CAS No) 471-34-1	24 - 32	Not classified
latex,liquid,synthetic		13 - 18	Not classified
titanium(IV) oxide	(CAS No) 13463-67-7	8 - 12	Carc. 2, H351
1,2-propanediol	(CAS No) 57-55-6	0.5 - 0.8	Not classified
2,2,4-trimethyl-1,3-pentanediol monoisobutyrate	(CAS No) 25265-77-4	0.3 - 0.6	Not classified
polyethylenes	(CAS No) 9002-88-4	0.3 - 0.6	Not classified
zinc oxide	(CAS No) 1314-13-2	0.2 - 0.5	Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-phrases: see section 16 *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.

First-aid measures after skin contact : Wash with water and soap. Rinse with water.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persist. Direct contact with the eyes is likely to be irritating.

First-aid measures after ingestion : Do not induce vomiting. Drink plenty of water. Rinse mouth. Get medical advice/attention.

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

Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/injuries after skin contact : May cause moderate irritation.

Symptoms/injuries after eye contact : Irritation of the eye tissue.

Symptoms/injuries after ingestion : No data available.

Chronic symptoms : No effects known.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

No additional information available

5.2. Special hazards arising from the substance or mixture

Fire hazard : Non combustible. Not flammable.

Reactivity : No data available.

5.3. Advice for firefighters

Firefighting instructions : No specific fire-fighting instructions required.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Avoid contact with eyes.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

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. Do not breathe spray. Obtain special instructions before use. Use personal protective equipment as required. Do not handle until all safety precautions have been read and understood.

Hygiene measures : Wash Always wash hands after handling the product thoroughly after handling. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.

Storage conditions : Keep container closed when not in use.

Incompatible products : Strong bases. Strong acids.

Storage temperature : 4 - 38 °C

Storage area : Keep only in the original container. Protect against frost.

Special rules on packaging : Keep only in original container. meet the legal requirements.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Tropical - #951 ETERNAPATCH White Elastomeric Roof Patch	
ACGIH	Not applicable
OSHA	Not applicable

Water (7732-18-5)	
ACGIH	Not applicable
OSHA	Not applicable

titanium(IV) oxide (13463-67-7)	
OSHA	Not applicable

calcium carbonate (471-34-1)	
ACGIH	Not applicable
OSHA	Not applicable

zinc oxide (1314-13-2)	
OSHA	Not applicable

latex,liquid,synthetic	
ACGIH	Not applicable
OSHA	Not applicable

2,2,4-trimethyl-1,3-pentanediol monoisobutyrate (25265-77-4)	
ACGIH	Not applicable
OSHA	Not applicable

1,2-propanediol (57-55-6)	
ACGIH	Not applicable
OSHA	Not applicable

polyethylenes (9002-88-4)	
OSHA	Not applicable

8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear protective gloves.
Eye protection : Face shield.
Skin and body protection : Wear suitable protective clothing.
Environmental exposure controls : Avoid release to the environment.
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
Appearance : Liquid.
Colour : Colourless
Odour : No data available
Odour threshold : No data available
pH : No data available
Relative evaporation rate (butylacetate=1) : No data available
Melting point : No data available
Freezing point : < 0 °C
Boiling point : > 100 °C
Flash point : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapour pressure : No data available
Relative vapour density at 20 °C : No data available
Relative density : No data available
Density : 10.8 - 11.4 lb/gal
Solubility : Water: ≈ 100 %
Log Pow : No data available
Log Kow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Corrosive vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

titanium(IV) oxide (13463-67-7)	
LD50 oral rat	> 10000 mg/kg (Rat; OECD 425: Acute Oral Toxicity: Up-and-Down Procedure; Experimental value; > 5000 mg/kg bodyweight; Rat; Experimental value)
LD50 dermal rabbit	> 10000 mg/kg (Rabbit; Experimental value)
LC50 inhalation rat (mg/l)	> 6.8 mg/l/4h (Rat; Experimental value)

calcium carbonate (471-34-1)	
LD50 oral rat	6450 mg/kg (Rat; OECD 420: Acute Oral toxicity – Acute Toxic Class Method; Literature study; >2000 mg/kg; Rat; Experimental value)
LD50 dermal rat	> 2000 mg/kg bodyweight (Rat; Experimental value; Equivalent or similar to OECD 402)
LC50 inhalation rat (mg/l)	> 3 mg/l/4h (Rat; Experimental value)
ATE US (oral)	6450.000 mg/kg bodyweight

zinc oxide (1314-13-2)	
LD50 oral rat	> 5000 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value)
LD50 dermal rabbit	> 7940 mg/kg (Rabbit; Literature study)
LC50 inhalation rat (mg/l)	> 5.7 mg/l/4h (Rat; Experimental value)

2,2,4-trimethyl-1,3-pentanediol monoisobutyrate (25265-77-4)	
LD50 oral rat	3200 mg/kg (Rat)
LD50 dermal rabbit	> 15200 mg/kg (Rabbit)
ATE US (oral)	3200.000 mg/kg bodyweight

1,2-propanediol (57-55-6)	
LD50 oral rat	20000 mg/kg (Rat; Experimental value)
LD50 dermal rat	22500 mg/kg (Rat; Experimental value)
LD50 dermal rabbit	20800 mg/kg (Rabbit; Experimental value)
ATE US (oral)	20000.000 mg/kg bodyweight
ATE US (dermal)	20800.000 mg/kg bodyweight

polyethylenes (9002-88-4)	
LD50 oral rat	> 2000 mg/kg (Rat)

Skin corrosion/irritation : Causes severe skin burns and eye damage.

Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Suspected of causing genetic defects (oral).

Carcinogenicity : Not classified.

titanium(IV) oxide (13463-67-7)	
IARC group	2B - Possibly carcinogenic to humans

polyethylenes (9002-88-4)	
IARC group	3 - Not classifiable

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

Symptoms/injuries after skin contact : May cause moderate irritation.

Symptoms/injuries after eye contact : Irritation of the eye tissue.

Symptoms/injuries after ingestion : No data available.

Chronic symptoms : No effects known.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water : Very toxic to aquatic life with long lasting effects.

titanium(IV) oxide (13463-67-7)	
LC50 fish 1	> 1000 mg/l (96 h; Pimephales promelas)
EC50 Daphnia 1	< 1000 mg/l (432 h; Daphnia magna; Static system)
LC50 fish 2	> 1 g/l (96 h; Leuciscus idus)
EC50 Daphnia 2	< 500 mg/l (720 h; Daphnia magna; Static system)
Threshold limit algae 1	61 mg/l (72 h; Pseudokirchneriella subcapitata)

calcium carbonate (471-34-1)	
LC50 fish 1	> 100 % (96 h; Oncorhynchus mykiss)
EC50 Daphnia 1	> 100 % (48 h; Daphnia magna)
TLM fish 1	> 56000 mg/l (96 h; Gambusia affinis)
Threshold limit algae 1	> 14 mg/l (72 h; Desmodesmus subspicatus; GLP)
Threshold limit algae 2	14 mg/l (72 h; Desmodesmus subspicatus; GLP)

zinc oxide (1314-13-2)	
LC50 fish 1	0.59 ppm (96 h; Salmo gairdneri (Oncorhynchus mykiss); Zinc ion)
EC50 Daphnia 1	0.068 mg/l (48 h; Daphnia magna; Zinc ion)
LC50 fish 2	0.14 mg/l (96 h; Oncorhynchus mykiss)
Threshold limit algae 1	0.136 mg/l (72 h; Pseudokirchneriella subcapitata; Zinc ion)
Threshold limit algae 2	< 0.12 mg/l (Algae; Zinc ion)

2,2,4-trimethyl-1,3-pentanediol monoisobutyrate (25265-77-4)	
LC50 fish 1	30 mg/l (96 h; Pimephales promelas)
EC50 Daphnia 1	147.8 mg/l (48 h; Daphnia sp.)
Threshold limit algae 1	3.28 mg/l (72 h; Selenastrum capricornutum; Biomass)
Threshold limit algae 2	18.4 mg/l (72 h; Selenastrum capricornutum; Growth)

1,2-propanediol (57-55-6)	
LC50 fish 1	51400 mg/l (96 h; Pimephales promelas)
LC50 other aquatic organisms 1	> 1000 mg/l (96 h)
EC50 Daphnia 1	34400 mg/l (48 h; Daphnia magna)
LC50 fish 2	51600 mg/l (96 h; Oncorhynchus mykiss)
TLM fish 1	> 1000 ppm (96 h; Pisces)

1,2-propanediol (57-55-6)	
TLM other aquatic organisms 1	> 1000 ppm (96 h)
Threshold limit other aquatic organisms 1	> 1000 mg/l (96 h)
Threshold limit algae 1	15000 mg/l (336 h; Selenastrum capricornutum)
Threshold limit algae 2	< 5300 mg/l (336 h; Skeletonema costatum)

12.2. Persistence and degradability

Tropical - #951 ETERNAPATCH White Elastomeric Roof Patch	
Persistence and degradability	Not established.

titanium(IV) oxide (13463-67-7)	
Persistence and degradability	Biodegradability: not applicable. Low potential for mobility in soil.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

calcium carbonate (471-34-1)	
Persistence and degradability	Biodegradability: not applicable. Biodegradability in soil: not applicable. Adsorbs into the soil.
ThOD	Not applicable (inorganic)

zinc oxide (1314-13-2)	
Persistence and degradability	Biodegradability: not applicable. Biodegradability in soil: not applicable. Low potential for adsorption in soil.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

latex,liquid,synthetic	
Persistence and degradability	Biodegradability in soil: no data available.
Biochemical oxygen demand (BOD)	0.01 g O_2/g substance

2,2,4-trimethyl-1,3-pentanediol monoisobutyrate (25265-77-4)	
Persistence and degradability	Readily biodegradable in water.
Chemical oxygen demand (COD)	2.1 g O_2/g substance
ThOD	2.4 g O_2/g substance

1,2-propanediol (57-55-6)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil.
Biochemical oxygen demand (BOD)	0.96 - 1.08 g O_2/g substance
Chemical oxygen demand (COD)	1.63 g O_2/g substance
ThOD	1.69 g O_2/g substance
BOD (% of ThOD)	0.57 % ThOD

polyethylenes (9002-88-4)	
Persistence and degradability	Not readily biodegradable in water. Non degradable in the soil.

12.3. Bioaccumulative potential

Tropical - #951 ETERNAPATCH White Elastomeric Roof Patch	
Bioaccumulative potential	Not established.

titanium(IV) oxide (13463-67-7)	
Bioaccumulative potential	Not bioaccumulative.

calcium carbonate (471-34-1)	
Log Pow	-2.12 (Estimated value)
Bioaccumulative potential	Bioaccumulation: not applicable.

zinc oxide (1314-13-2)	
Log Pow	1.53 (Estimated value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
latex,liquid,synthetic	
Bioaccumulative potential	Not bioaccumulative.
2,2,4-trimethyl-1,3-pentanediol monoisobutyrate (25265-77-4)	
Log Pow	3.47 (Experimental value)
1,2-propanediol (57-55-6)	
Log Pow	-1.41 - -0.30
Bioaccumulative potential	Not bioaccumulative.
polyethylenes (9002-88-4)	
Bioaccumulative potential	No bioaccumulation data available.

12.4. Mobility in soil

1,2-propanediol (57-55-6)	
Surface tension	0.036 N/m (25 °C)

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 disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to Avoid release to the environment, Do not discharge into drains or the environment, Do not discharge into the sewer.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT

Transport document description : Not Reguklated (Water Based Material - KEEP FROM FREEZING)

UN-No.(DOT) : Not Reguklated (Water Based Material - KEEP FROM FREEZING)

Additional information

Other information : No supplementary information available.

ADR

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

Water	CAS No 7732-18-5	C>=22.00% ; C<=32.00%
titanium(IV) oxide	CAS No 13463-67-7	C>=8.00% ; C<=12.00%
calcium carbonate	CAS No 471-34-1	C>=24.00% ; C<=32.00%
zinc oxide	CAS No 1314-13-2	C>=0.20% ; C<=0.50%
latex,liquid,synthetic	CAS No	C>=13.00% ; C<=18.00%

2,2,4-trimethyl-1,3-pentanediol monoisobutyrate	CAS No 25265-77-4	C>=0.30% ; C<=0.60%
1,2-propanediol	CAS No 57-55-6	C>=0.50% ; C<=0.80%
polyethylenes	CAS No 9002-88-4	C>=0.30% ; C<=0.60%

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

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

Tropical - #951 ETERNAPATCH White Elastomeric Roof Patch()	
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

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

SECTION 16: Other information

Other information : None.

Full text of H-phrases:

Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Carc. 2	Carcinogenicity, Category 2
Muta. 2	Germ cell mutagenicity, Category 2
Skin Corr. 1C	Skin corrosion/irritation, Category 1C
H314	Causes severe skin burns and eye damage
H341	Suspected of causing genetic defects
H351	Suspected of causing cancer
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

HMIS III Rating	
Health	: 1 Slight Hazard - Irritation or minor reversible injury possible
Flammability	: 0 Minimal Hazard
Physical	: 0 Minimal Hazard

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.