

Safety Data Sheet

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

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

1.1. Product identifier

Product form : Mixture

Product name : Tropical - RX Roof Repair Premium Silicone Mastic

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

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

Flam. Liq. 3 H226 Muta. 1B H340 Carc. 1B H350

Full text of H-statements: see section 16

2.2. Label elements

GHS US labelling

0

Hazard pictograms (GHS US)



CHSU3

Signal word (GHS US) : Danger

Hazard statements (GHS US) : H226 - Flammable liquid and vapour.

H340 - May cause genetic defects.

H350 - May cause cancer.

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 heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P233 - Keep container tightly closed.

P240 - Ground/Bond container and receiving equipment.

P241 - Use explosion-proof electrical/ventilating/lighting equipment.

P242 - Use only non-sparking tools.

P243 - Take precautionary measures against static discharge.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

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. P370+P378 - In case of fire: Use media other than water to extinguish.

P403+P235 - Store in a well-ventilated place. Keep cool.

P405 - Store locked up.

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

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2.3. Other hazards

2.4. Unknown acute toxicity (GHS US)

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS-US classification
poly(dimethylsiloxane)	(CAS-No.) 9016-00-6	30 – 40	Not classified
silica, pyrogenic	(CAS-No.) 112945-52-5	30 – 40	Not classified
Naphtha (petroleum), heavy alkylate; Low boiling point modified naphtha;	(CAS-No.) 64741-65-7	8 – 18	Muta. 1B, H340 Carc. 1B, H350 Asp. Tox. 1, H304
titanium(IV) oxide	(CAS-No.) 13463-67-7	0 – 10	Carc. 2, H351
butan-2-one O,O',O"-(methylsilylidyne)trioxime	(CAS-No.) 22984-54-9	1 – 5	Flam. Liq. 4, H227
polyethylenes	(CAS-No.) 9002-88-4	1 – 5	Not classified
3-aminopropyltrimethoxysilane	(CAS-No.) 13822-56-5	1 – 3	Flam. Liq. 4, H227

Full text of H- and EUH-statements: see section 16

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). IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation

Remove person to fresh air and keep comfortable for breathing. Allow affected person 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. Rinse skin with water/shower. Take off immediately all contaminated clothing.

First-aid measures after eye contact

Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists. Rinse eyes with water as a precaution.

First-aid measures after ingestion

: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects

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

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

Treat symptomatically.

SECTION 5: Firefighting 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 : Flammable liquid and vapour.

Reactivity : Flammable liquid and vapour.

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 the environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Do

not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures

 $: \ \ \, \text{Evacuate unnecessary personnel. No open flames, no sparks, and no smoking. Only qualified}$

personnel equipped with suitable protective equipment may intervene.

6.1.2. For emergency responders

Protective equipment

: Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal

protection".

Emergency procedures

Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

 Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

Notify authorities if product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

See Section 8. Exposure controls and personal protection. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

: Ensure good ventilation of the work station. 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. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Floors, walls and other surfaces in the hazard area must be cleaned regularly.

Hygiene measures

: Separate working clothes from town clothes. Launder separately. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures

: Ground/bond container and receiving equipment.

Storage conditions

: Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use. Store in a well-ventilated place. Keep cool. Keep container tightly

closed. Store locked up.Strong bases. Strong acids.

Incompatible products
Incompatible materials

: Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Tropical - RX Roof Repair Premium Silicone Mastic	
ACGIH	Not applicable
OSHA	Not applicable
poly(dimethylsiloxane) (9016-00-6)	
poly(dimethylsiloxane) (9016	6-00-6)
poly(dimethylsiloxane) (9010 ACGIH	6-00-6) Not applicable

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itanium(IV) oxide (1	3463-67-7)	
ACGIH	ACGIH OEL TWA	10 mg/m³ (Titanium dioxide; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
OSHA	Not applicable	
butan-2-one O,O',O'	'-(methylsilylidyne)trioxime (22984-54-9)	
ACGIH	Not applicable	
OSHA	Not applicable	
3-aminopropyltrime	thoxysilane (13822-56-5)	
ACGIH	Not applicable	
OSHA	Not applicable	
silica, pyrogenic (11	2945-52-5)	
ACGIH	Not applicable	
OSHA	Not applicable	
polyethylenes (9002	2-88-4)	
ACGIH	ACGIH OEL TWA	3 mg/m³ (Particulates (insoluble or poorly soluble)(NOS); USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Respirable fraction)
OSHA	Not applicable	·
distillation of the reconsists of predomi	action products of isobutane with monoolefin	naphtha; [A complex combination of hydrocarbons produced by ic hydrocarbons usually ranging in carbon numbers from C3 to C5. is having carbon numbers predominantly in the range of C9 through the carbon hydrocarbon (C9 through the carbon hydrocarbon) (64741-65-7)
ACGIH	Not applicable	
OSHA	Not applicable	

Appropriate engineering controls : Ensure good ventilation of the work station.

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses. Safety glasses.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : Wear appropriate mask. [In case of inadequate ventilation] wear respiratory protection.

Environmental exposure controls : Avoid release to the environment.

Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

Odour threshold

Melting point

Freezing point

Boiling point

рΗ

9.1. Information on basic physical and chemical properties

Physical state : Liquid : No data available

No data available
No data available
No data available
No data available
Not applicable
No data available

: No data available

Flash point : > 105 °F

Relative evaporation rate (butylacetate=1)

Auto-ignition temperature : No data available Decomposition temperature : No data available

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Flammability (solid, gas) : No data available : No data available Vapour pressure Relative vapour density at 20 °C : No data available Relative density : No data available Density : ≈ 11.1 lb/gal Solubility : No data available Partition coefficient n-octanol/water (Log Pow) : No data available Partition coefficient n-octanol/water (Log Kow) : No data available Viscosity, kinematic : ≥ 10000 mm²/s : No data available Viscosity, dynamic Explosive properties : Not explosive. Oxidising properties : Not oxidising. Explosive limits : No data available

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable liquid and vapour.

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

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

poly(dimethylsiloxane) (9016-00-6)		
LD50 oral rat	> 5000 mg/kg (Rat, Literature study)	
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; Literature study)	
LC50 Inhalation - Rat	> 6.8 mg/l/4h (Rat; Experimental value)	
butan-2-one O,O',O"-(methylsilylidyne)trioxim	ne (22984-54-9)	
LD50 oral rat	2463 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male/female, Experimental value)	
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male/female, Experimental value)	
ATE US (oral)	2463 mg/kg bodyweight	
3-aminopropyltrimethoxysilane (13822-56-5)		
LD50 oral rat	2.97 ml/kg (Equivalent or similar to OECD 401, Rat, Male, Experimental value, Oral, 14 day(s))	
LD50 dermal rabbit	11.3 ml/kg (Equivalent or similar to OECD 402, 24 h, Rabbit, Male, Experimental value, Dermal, 14 day(s))	
LC50 Inhalation - Rat [ppm]	> 5 ppm (OECD 403: Acute Inhalation Toxicity, 6 h, Rat, Male, Read-across, Inhalation (vapours), 14 day(s))	

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3160 mg/kg (Rat)
> 5000 mg/kg (Rabbit)
3160 mg/kg bodyweight
> 2000 mg/kg (Rat)
: Not classified
: Not classified
: Not classified
: May cause genetic defects.
Based on available data, the classification criteria are not met
: May cause cancer.
2B - Possibly carcinogenic to humans
3 - Not classifiable
: Not classified
Based on available data, the classification criteria are not met
: Not classified
Martine 18 and
: Not classified
: Not classified
: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

40.4	Tarrialter	

: The product is not considered harmful to aquatic organisms nor to cause long-term adverse Ecology - general effects in the environment.

poly(dimethylsiloxane) (9016-00-6)	
LC50 - Fish [1]	> 10000 mg/l (96 h, Salmo gairdneri, Static system, Literature study)
titanium(IV) oxide (13463-67-7)	
EC50 - Crustacea [1]	> 100 mg/l (LC50; Equivalent or similar to OECD 202; 48 h; Daphnia magna; Static system; Fresh water; Weight of evidence)
Threshold limit - Algae [1]	61 mg/l (EC50; Other; 72 h; Pseudokirchneriella subcapitata; Static system; Fresh water; Experimental value)
butan-2-one O,O',O"-(methylsilylidyne)trioxim	ne (22984-54-9)
LC50 - Fish [1]	> 100 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oryzias latipes, Semi-static system, Fresh water, Read-across)
EC50 - Crustacea [1]	201 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Read-across)
3-aminopropyltrimethoxysilane (13822-56-5)	
LC50 - Fish [1]	> 934 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Semi-static system, Fresh water, Read-across, GLP)
EC50 - Crustacea [1]	331 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Read-across, GLP)

Persistence and degradability

Tropical - RX Roof Repair Premium Silicone N	lastic
Persistence and degradability	Not established.

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Ecology - soil Adsorbs into the soil. Low potential for mobility in soil. Not toxic to plants. butan-2-one O,O',O"-(methylsilylidyne)trioxime (22984-54-9) Organic Carbon Normalized Adsorption Coefficient (Log Koc) Ecology - soil Low potential for mobility in soil. 3-aminopropyltrimethoxysilane (13822-56-5)	12.4. WODING IN SOIL	
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Organic Carbon Normalized Adsorption Coefficient (Log Koc) Ecology - soil Low potential for mobility in soil. 3-aminopropyltrimethoxysilane (13822-56-5)	Ecology - soil	Adsorbs into the soil. Low potential for mobility in soil. Not toxic to plants.
Coefficient (Log Koc) Ecology - soil Low potential for mobility in soil. 3-aminopropyltrimethoxysilane (13822-56-5)	butan-2-one O,O',O"-(methylsilylidyne)trioxim	ne (22984-54-9)
Ecology - soil Low potential for mobility in soil. 3-aminopropyltrimethoxysilane (13822-56-5)	Organic Carbon Normalized Adsorption	5.481 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
3-aminopropyltrimethoxysilane (13822-56-5)	Coefficient (Log Koc)	
		Low potential for mobility in soil.
Ecology - soil No (test)data on mobility of the substance available.	3-aminopropyltrimethoxysilane (13822-56-5)	
	Ecology - soil	No (test)data on mobility of the substance available.

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12.5. Other adverse effects

Effect on the ozone layer : No additional information available

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.

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Additional information : Flammable vapours may accumulate in the container.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT Not regulated for transport

Additional information

Other information : No supplementary information available.

ADR

Transport by sea

Air transport

SECTION 15: Regulatory information

15.1. US Federal regulations

Tropical - RX Roof Repair Premium Silicone Mastic

Not subject to reporting requirements of the United States SARA Section 313 Listed on the United States TSCA (Toxic Substances Control Act) inventory

polyethylenes (9002-88-4)	
Listed on the United States TSCA (Toxic Substan	nces Control Act) inventory
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).

15.2. International regulations

CANADA

(9016-00-6)

Listed on the Canadian DSL (Domestic Substances List)

(13463-67-7)

Listed on the Canadian DSL (Domestic Substances List)

butan-2-one O,O',O"-(methylsilylidyne)trioxime (22984-54-9)

Listed on the Canadian DSL (Domestic Substances List)

3-aminopropyltrimethoxysilane (13822-56-5)

Listed on the Canadian DSL (Domestic Substances List)

(112945-52-5)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

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Classification according to Regulation (EC) No. 1272/2008 [CLP] Not classified

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

15.2.2. National regulations

(9016-00-6)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on INSQ (Mexican National Inventory of Chemical Substances)

(13463-67-7)

Listed on IARC (International Agency for Research on Cancer)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Listed on INSQ (Mexican National Inventory of Chemical Substances)

butan-2-one O,O',O"-(methylsilylidyne)trioxime (22984-54-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

3-aminopropyltrimethoxysilane (13822-56-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

(112945-52-5)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. US State regulations

(13463-67-7)

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE

COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending

Regulation (EC) No 1907/2006.

Other information : None.

Full text of H-statements:

H226	Flammable liquid and vapour.
H227	Combustible liquid
H304	May be fatal if swallowed and enters airways.
H340	May cause genetic defects.
H350	May cause cancer.
H351	Suspected of causing cancer.

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.

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