



Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 03.02.2018

Page 1 of 17

Revision date: 09.29.2020

Tread Rope Rubber

SECTION 1: Identification

Product identifier

Product name: Tread Rope Rubber

Product code: TRR

Additional information: Rev 3

Recommended use of the product and restriction on use

Relevant identified uses: Tire repair

Uses advised against: Not determined or not applicable.

Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details

Manufacturer:

North America

Tech International

200 East Coshocton Street

Johnstown, OH 43031

1-740-967-9015

www.tech-international.com

Emergency telephone number:

United States

CHEMTREC

Within USA and Canada: 1-800-424-9300

Outside USA and Canada: +1-703-527-3887

SECTION 2: Hazard(s) identification

GHS classification:

Skin sensitization, category 1

Reproductive toxicity, category 2

Label elements

Hazard pictograms:



Signal word: Warning

Hazard statements:

H317 May cause an allergic skin reaction.

H361 Suspected of damaging fertility or the unborn child.

Precautionary statements:

P201 Obtain special instructions before use.

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 03.02.2018

Page 2 of 17

Revision date: 09.29.2020

Tread Rope Rubber

P202 Do not handle until all safety precautions have been read and understood.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P272 Contaminated work clothing must not be allowed out of the workplace.

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

P321 Specific treatment (see supplemental first aid instructions on this label).

P302+P352 IF ON SKIN: Wash with soap and water.

P363 Wash contaminated clothing before reuse.

P333+P313 If skin irritation or a rash occurs: Get medical advice/attention.

P308+P313 If exposed or concerned: Get medical advice/attention.

P405 Store locked up.

P501 Dispose of contents and container as instructed in Section 13.

Hazards not otherwise classified: None

SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: 9003-31-0	1,3-Butadiene, 2-methyl-, homopolymer	15-40
CAS number: 1333-86-4	Bounded Carbon Black	15-40
CAS number: 1332-58-7	Kaolin	<10
CAS number: 64742-52-5	Distillates (petroleum), hydrotreated heavy naphthenic	<10
CAS number: 1314-13-2	Zinc oxide	<5
CAS number: 8042-47-5	White Mineral Oil	<5
CAS number: 57-11-4	Stearic acid	<5
CAS number: 68610-51-5	Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	<1
CAS number: 97-74-5	Tetramethylthiuram monosulfide	<1
CAS number: 61617-00-3	1,3-dihydro-4(or 5)-methyl-2H-benzimidazole-2-thione, zinc salt	<1
CAS number: 135-57-9	2,2' Dibenzamido diphenyl disulphide	<1
CAS number: 103-34-4	Di(morpholin-4-yl) disulphide	<1
CAS number: 120-78-5	Di(benzothiazol-2-yl) disulphide	<1

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 03.02.2018

Page 3 of 17

Revision date: 09.29.2020

Tread Rope Rubber

CAS number: 149-30-4	Benzothiazole-2-thiol	<1
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Additional Information:

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of the OSHA Hazard Communication Standard (29 CFR §1910.1200).

Carbon black is classified as a carcinogen only in its respirable form. Since the carbon black in this product is not respirable, the product itself is not classified as a carcinogen in the form presented.

SECTION 4: First aid measures

Description of first aid measures

General notes:

Show this Safety Data Sheet to the doctor in attendance

After inhalation:

If inhaled, remove person to fresh air and place in a position comfortable for breathing. Keep person at rest. If breathing is difficult, administer oxygen. If breathing has stopped, provide artificial respiration. If symptoms develop or persist, seek medical advice/attention

After skin contact:

Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. Launder contaminated clothing before reuse. If symptoms develop or persist, seek medical advice/attention

After eye contact:

Rinse eyes with plenty of water for several minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. If symptoms develop or persist, seek medical advice/attention

After swallowing:

If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

Dermal exposure may cause an allergic skin reaction. Symptoms may include irritation, redness, pain, rash, inflammation, itching, burning and dermatitis

Delayed symptoms and effects:

Long term exposure may affect fertility. Symptoms include, but are not limited to: menstrual problems, altered sexual behavior/fertility/ and pregnancy outcome. Long term exposure may also affect development of the unborn child. Symptoms include, but are not limited to: intrauterine growth retardation, pre-term birth, birth defects and postnatal death
Effects are dependent on exposure (dose, concentration, contact time)

Immediate medical attention and special treatment

Specific treatment:

Not determined or not applicable.

Notes for the doctor:

Treat symptomatically

SECTION 5: Firefighting measures

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 03.02.2018

Page 4 of 17

Revision date: 09.29.2020

Tread Rope Rubber

Extinguishing media

Suitable extinguishing media:

Water mist/fog, carbon dioxide, dry chemical or alcohol resistant foam

Unsuitable extinguishing media:

Do not use water jet

Specific hazards during fire-fighting:

Thermal decomposition may produce irritating/toxic fumes/gases

Special protective equipment for firefighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full-face piece operated in positive pressure mode

Special precautions:

Avoid contact with skin, eyes, hair and clothing. Do not breathe fumes/gas/mists/aerosols/vapors/dusts. Move containers from fire area if safe to do so. Use water spray/fog for cooling fire exposed containers. Avoid unnecessary run-off of extinguishing media which may cause pollution

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Evacuate unnecessary personnel. Ventilate area. Extinguish any sources of ignition. Wear recommended personal protective equipment (see Section 8). Avoid contact with skin, eyes and clothing. Avoid breathing mist, vapor, dust, fume and spray. Do not walk through spilled material. Wash thoroughly after handling

Environmental precautions:

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Discharge into the environment must be avoided

Methods and material for containment and cleaning up:

Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Stop leak if you can do it without risk. Contain and collect spillage and place in suitable container for future disposal. Dispose of in accordance with all applicable regulations (see Section 13)

Reference to other sections:

For personal protective equipment see Section 8. For disposal see Section 13

SECTION 7: Handling and storage

Precautions for safe handling:

Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with skin, eyes and clothing. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use.

Conditions for safe storage, including any incompatibilities:

Store in cool, dry, well-ventilated location out of direct sunlight. Keep away from food and beverages. Protect from freezing and physical damage. Store away from heat, open flames and other sources of ignition. Keep container tightly sealed. Store away from incompatible materials (See Section 10).

SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 03.02.2018

Page 5 of 17

Revision date: 09.29.2020

Tread Rope Rubber

Country (Legal Basis)	Substance	Identifier	Permissible concentration
ACGIH	1,3-Butadiene, 2-methyl-, homopolymer	9003-31-0	ACGIH TLV TWA: 0.0001 mg/m ³ , inhalable fraction
	Zinc oxide	1314-13-2	ACGIH TLV TWA: 2.0 mg/m ³
	Zinc oxide	1314-13-2	ACGIH TLV TWA: 10.0 mg/m ³
	Kaolin	1332-58-7	ACGIH TLV TWA: 2 mg/m ³ (respirable fraction)
	Stearic acid	57-11-4	8-Hour Exposure Limit (TLV-TWA): 10 mg/m ³ [Stearates (except stearates of toxic metals), Inhalable fraction]
	Stearic acid	57-11-4	8-Hour Exposure Limit (TLV-TWA): 3 mg/m ³ [Stearates (except stearates of toxic metals), Respirable fraction]
	Bounded Carbon Black	1333-86-4	TLV-TWA 3.0 mg/m ³
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-Hour Exposure Limit (TLV-TWA): 5 mg/m ³ (Mineral oil, excluding metal working fluids, pure, highly and severely refined; Inhalable fraction)
	White Mineral Oil	8042-47-5	8-Hour Exposure Limit (TLV-TWA): 5 mg/m ³ (Mineral oil, excluding metal working fluids, pure, highly and severely refined; Inhalable fraction)
United States (OSHA)	Bounded Carbon Black	1333-86-4	OSHA PEL TWA 3.5 mg/m ³
	Kaolin	1332-58-7	OSHA PEL TWA 15 mg/m ³ (total dust)
	Kaolin	1332-58-7	OSHA PEL TWA 5 mg/m ³ (respirable fraction)
	Zinc oxide	1314-13-2	OSHA PEL TWA 5 mg/m ³ (Fume)
	Zinc oxide	1314-13-2	OSHA PEL TWA 15 mg/m ³ (Total dust)
	Zinc oxide	1314-13-2	OSHA PEL TWA 5 mg/m ³ (Respirable fraction)
	White Mineral Oil	8042-47-5	PEL: 5 mg/m ³ [Oil mist (Mineral)]
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	PEL: 5 mg/m ³ [Oil mist (Mineral)]
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	PEL: 500 ppm (2000 mg/m ³) [Petroleum Distillates (Naphtha) (Rubber Solvent)]
NIOSH	Bounded Carbon Black	1333-86-4	NIOSH REL TWA 0.1 mg PAHs/m ³ [Carbon black in presence of polycyclic aromatic hydrocarbons (PAHs)]
	Kaolin	1332-58-7	NIOSH REL TWA 10.0 mg/m ³ (total dust)
	Kaolin	1332-58-7	NIOSH REL TWA 5.0 mg/m ³ (respirable dust)
	Bounded Carbon Black	1333-86-4	NIOSH REL TWA 3.5 mg/m ³ Ca

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 03.02.2018

Page 6 of 17

Revision date: 09.29.2020

Tread Rope Rubber

Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Zinc oxide	1314-13-2	NIOSH REL TWA 5.0 mg/m ³ ; C 15 mg/m ³ (Dust)
	Zinc oxide	1314-13-2	NIOSH REL TWA 5.0 mg/m ³ ; ST 10 mg/m ³ (Fume)
	Bounded Carbon Black	1333-86-4	IDLH: 1750 mg/m ³
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	IDLH: 2500 mg/m ³ [Oil mist (Mineral)]
	White Mineral Oil	8042-47-5	REL (for up to a 10-hour workday during a 40-hour workweek): 5 mg/m ³ [Oil mist (Mineral)]
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	REL (for up to a 10-hour workday during a 40-hour workweek): 5 mg/m ³ [Oil mist (Mineral)]
	White Mineral Oil	8042-47-5	STEL: 10 mg/m ³ [Oil mist (Mineral)]
	White Mineral Oil	8042-47-5	IDLH: 2500 mg/m ³ [Oil mist (Mineral)]
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	REL (for up to a 10-hour workday during a 40-hour workweek): 350 mg/m ³ [Petroleum distillates (Naphtha)]
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	STEL: 10 mg/m ³ [Oil mist (Mineral)]
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	Ceiling (15-minute time period): 1800 mg/m ³ [Petroleum distillates (Naphtha)]
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	IDLH: 1100 ppm [Petroleum distillates (Naphtha)]
WEEL	Benzothiazole-2-thiol	149-30-4	8-hour TWA: 5 mg/m ³
United States (California)	Bounded Carbon Black	1333-86-4	8-hour TWA-PEL: 3.5 mg/m ³
	Kaolin	1332-58-7	8-hour TWA-PEL: 2 mg/m ³
	Zinc oxide	1314-13-2	STEL: 10 mg/m ³
	Zinc oxide	1314-13-2	PEL-TWA: 5 mg/m ³

Biological limit values:

No biological exposure limits noted for the ingredient(s).

Information on monitoring procedures:

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls.

Biological monitoring may also be appropriate for some substances.

Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

Personal protection equipment

Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 03.02.2018

Page 7 of 17

Revision date: 09.29.2020

Tread Rope Rubber

Skin and body protection:

Select glove material impermeable and resistant to the substance.

Wear appropriate clothing to prevent any possibility of skin contact.

For continuous contact we recommend nitrile gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified.

Respiratory protection:

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

Use a NIOSH/MSHA approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Comply with the OSHA respirator regulations found in 29 CFR 1910.134.

General hygienic measures:

Avoid contact with skin, eyes and clothing.

Wash hands before breaks and at the end of work.

Wash contaminated clothing before reuse.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Black Rubber
Odor	Slight
Odor threshold	Not determined or not available.
pH	Not determined or not available.
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	Not determined or not available.
Flash point (closed cup)	Not determined or not available.
Evaporation rate	Not determined or not available.
Flammability (solid, gas)	Not determined or not available.
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Vapor pressure	Not determined or not available.
Vapor density	Not determined or not available.
Density	Not determined or not available.
Relative density	1.15 g/cm ³ @ 68°F
Solubilities	Not determined or not available.
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
Dynamic viscosity	Not determined or not available.
Kinematic viscosity	Not determined or not available.
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 03.02.2018

Page 8 of 17

Revision date: 09.29.2020

Tread Rope Rubber

Other information

SECTION 10: Stability and reactivity

Reactivity:

Does not react under normal conditions of use and storage.

Chemical stability:

Stable under normal conditions of use and storage.

Possibility of hazardous reactions:

None under normal conditions of use and storage.

Conditions to avoid:

None known.

Incompatible materials:

Strong acids, bases, and oxidizers.

Hazardous decomposition products:

None known.

SECTION 11: Toxicological information

Acute toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Route	Result
Zinc oxide	oral	LD50 Rat: > 5000 mg/kg
	dermal	LD50 Rat: > 2000 mg/kg
	inhalation	LC50 Rat: > 5.7 mg/L (4 hr, aerosol)
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	dermal	LD50 Rat: >2000 mg/kg
	oral	LD50 Rat: >5000 mg/kg
	inhalation	LC50 Rat: >165 mg/L (4 hr - dust/mist)
Di(morpholin-4-yl) disulphide	oral	LD50 Rat: 5600 mg/kg
1,3-dihydro-4(or 5)-methyl-2H-benzimidazole-2-thione, zinc salt	dermal	LD50 Rat: >2000 mg/kg
	inhalation	LC50 Rat: >2.12 mg/kg (4 hr)
	oral	LD50 Rat: 390 mg/kg
2,2' Dibenzamido diphenyl disulphide	dermal	LD50 Rat: > 2500 mg/kg
	oral	LD50 Rat: 4000 mg/kg
Di(benzothiazol-2-yl) disulphide	dermal	LD50 Rabbit: >7940 mg/kg
	oral	LD50 Rat: >12,000 mg/kg
Tetramethylthiuram monosulfide	oral	LD50 Rat: 450 mg/kg
	dermal	LD50 Rat: >2000 mg/kg
Bounded Carbon Black	oral	LD50 Rat: >15,400 mg/kg
	dermal	LD50 Rabbit: >3000 mg/kg
Distillates (petroleum), hydrotreated heavy naphthenic	dermal	LD50 Rabbit: > 5000 mg/kg
	oral	LD50 Rat: > 5000 mg/kg

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 03.02.2018

Page 9 of 17

Revision date: 09.29.2020

Tread Rope Rubber

Name	Route	Result
Stearic acid	dermal	LD50 Rabbit: 5000 mg/kg
Benzothiazole-2-thiol	oral	LD50 Rat: 3800 mg/kg
	inhalation	LC50 Rat: 1270 mg/L (4 hr)
	dermal	LD50 Rabbit: > 7940 mg/kg

Skin corrosion/irritation

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data:

Name	Result
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	Causes skin irritation.

Serious eye damage/irritation

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data:

Name	Result
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	Causes serious eye irritation.

Respiratory or skin sensitization

Assessment:

May cause an allergic skin reaction

Product data:

No data available.

Substance data:

Name	Result
1,3-dihydro-4(or 5)-methyl-2H-benzimidazole-2-thione, zinc salt	May cause an allergic skin reaction.
2,2' Dibenzamido diphenyl disulphide	May cause an allergic skin reaction.
Di(benzothiazol-2-yl) disulphide	May cause an allergic skin reaction.
Di(morpholin-4-yl) disulphide	May cause an allergic skin reaction.
Tetramethylthiuram monosulfide	May cause an allergic skin reaction.
Benzothiazole-2-thiol	May cause an allergic skin reaction.

Carcinogenicity

Assessment: Based on available data, the classification criteria are not met.

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 03.02.2018

Page 10 of 17

Revision date: 09.29.2020

Tread Rope Rubber

Product data: No data available.

Substance data:

Name	Species	Result
Bounded Carbon Black	Not applicable.	The carcinogenic classification only applies to airborne, unbound particles of respirable size.
Distillates (petroleum), hydrotreated heavy naphthenic	Not applicable	The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346.

International Agency for Research on Cancer (IARC):

Name	Classification
Bounded Carbon Black	Group 2B - Possibly carcinogenic to humans
Benzothiazole-2-thiol	Group 2A

National Toxicology Program (NTP): None of the ingredients are listed.

Germ cell mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Reproductive toxicity

Assessment:

Suspected of damaging fertility or the unborn child

Product data:

No data available.

Substance data:

Name	Result
1,3-dihydro-4(or 5)-methyl-2H-benzimidazole-2-thione, zinc salt	May damage fertility or the unborn child.
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	Suspected of damaging fertility or the unborn child.

Specific target organ toxicity (single exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data:

Name	Result
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	May cause respiratory irritation.

Specific target organ toxicity (repeated exposure)

Assessment: Based on available data, the classification criteria are not met.

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 03.02.2018

Page 11 of 17

Revision date: 09.29.2020

Tread Rope Rubber

Product data:

No data available.

Substance data:

Name	Result
1,3-dihydro-4(or 5)-methyl-2H-benzimidazole-2-thione, zinc salt	May cause damage to organs through prolonged or repeat exposure.

Aspiration toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Information on likely routes of exposure:

No data available.

Symptoms related to the physical, chemical and toxicological characteristics:

Refer to Section 4 of this SDS.

Other information:

No data available.

SECTION 12: Ecological information

Acute (short-term) toxicity

Assessment:

Toxic to aquatic life

Product data: No data available.

Substance data:

Name	Result
Zinc oxide	EC50 Daphnia magna: 0.86 mg/L (48 hr)
	LC50 Thymallus arcticus: 0.112 mg/L (96 hr)
1,3-dihydro-4(or 5)-methyl-2H-benzimidazole-2-thione, zinc salt	LC50 Oncorhynchus mykiss: 5.6 mg/L (96 hr)
	EC50 Daphnia magna: 1.4 mg/L (48 hr)
	ErC50 Scendesmus subspicatus: 10 mg/L (72 hr)
Benzothiazole-2-thiol	LC50 Danio rerio: 1.6 mg/L (96 hr)
	EC50 Daphnia magna: 0.71 mg/L (48 hr)
Di(morpholin-4-yl) disulphide	LC50 Oncorhynchus mykiss: 3.68 mg/l (96 hr)
	EC50 Daphnia magna: 4.5 mg/l (48 hr)
Di(benzothiazol-2-yl) disulphide	EC50 Daphnia magna: 82 mg/L (48 hr)
Tetramethylthiuram monosulfide	LC50 Poecilia reticulata: 5.3 mg/L (96 hr)
	EC50 Daphnia magna: 2.9 mg/L (48 hr)
	EC50 Pseudokirchneriella subcapitata: 0.32 mg/L (72 hr)
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	LC50 Oncorhynchus mykiss: >0.2 mg/L (96 hr)
	EC50 Daphnia magna: >0.2 mg/L (48 hr)
	EC50 Pseudokirchnerella subcapitata: >0.2 mg/L (72 hr)

Chronic (long-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 03.02.2018

Page 12 of 17

Revision date: 09.29.2020

Tread Rope Rubber

Product data: No data available.

Substance data:

Name	Result
1,3-dihydro-4(or 5)-methyl-2H-benzimidazole-2-thione, zinc salt	NOEC Daphnia magna: 0.035 mg/L (21 d)
Tetramethylthiuram monosulfide	NOEC - Daphnia magna - 0.006 mg/L - 21 d
Di(benzothiazol-2-yl) disulphide	NOEC Daphnia magna: 0.0001 mg/L (21 d)
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	NOEC Pimephales promelas: >1.0 mg/L (34 d)
Benzothiazole-2-thiol	NOEC: Daphnia magna: 0.08 mg/L

Persistence and degradability

Product data: No data available.

Substance data:

Name	Result
1,3-dihydro-4(or 5)-methyl-2H-benzimidazole-2-thione, zinc salt	Not readily biodegradable.
2,2' Dibenzamido diphenyl disulphide	24% degradation after 28 days; inherently biodegradable.
Di(benzothiazol-2-yl) disulphide	Not readily biodegradable.
Di(morpholin-4-yl) disulphide	Inherently biodegradable.
Tetramethylthiuram monosulfide	Not readily biodegradable.
Bounded Carbon Black	The substance will not be biodegraded.
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	Not inherently biodegradable.
Benzothiazole-2-thiol	Not readily biodegradable.

Bioaccumulative potential

Product data: No data available.

Substance data:

Name	Result
Bounded Carbon Black	Bioaccumulation is not expected to occur.

Mobility in soil

Product data: No data available.

Substance data: No data available.

Other adverse effects: No data available.

SECTION 13: Disposal considerations

Disposal methods:

Dispose in accordance with all applicable regulations. It is the responsibility of the waste generator to

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 03.02.2018

Page 13 of 17


Revision date: 09.29.2020

Tread Rope Rubber


properly characterize all waste materials according to applicable regulatory entities

SECTION 14: Transport information


United States Transportation of dangerous goods (49 CFR DOT)

UN number	UN3077
UN proper shipping name	Environmentally Hazardous Substance, Solid, N.O.S. (Zinc oxide)
UN transport hazard class(es)	9 
Packing group	III
Environmental hazards	Marine Pollutant (Zinc oxide)
Special precautions for user	None

International Maritime Dangerous Goods (IMDG)

UN number	UN3077
UN proper shipping name	Environmentally Hazardous Substance, Solid, N.O.S. (Zinc oxide)
UN transport hazard class(es)	9 
Packing group	III
Environmental hazards	Marine Pollutant (Zinc oxide)
Special precautions for user	None

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	UN3077
UN proper shipping name	Environmentally Hazardous Substance, Solid, N.O.S. (Zinc oxide)
UN transport hazard class(es)	9 
Packing group	III
Environmental hazards	Marine Pollutant (Zinc oxide)
Special precautions for user	None

SECTION 15: Regulatory information

United States regulations

Inventory listing (TSCA): All ingredients are listed or exempt.

Significant New Use Rule (TSCA Section 5): None of the ingredients are listed.

Export notification under TSCA Section 12(b): None of the ingredients are listed.

SARA Section 302 extremely hazardous substances: None of the ingredients are listed.

SARA Section 313 toxic chemicals:

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 03.02.2018

Page 14 of 17

Revision date: 09.29.2020

Tread Rope Rubber

9003-31-0	1,3-Butadiene, 2-methyl-, homopolymer	Not Listed
1314-13-2	Zinc oxide	Listed
61617-00-3	1,3-dihydro-4(or 5)-methyl-2H-benzimidazole-2-thione, zinc salt	Listed
135-57-9	2,2' Dibenzamido diphenyl disulphide	Not Listed
120-78-5	Di(benzothiazol-2-yl) disulphide	Not Listed
103-34-4	Di(morpholin-4-yl) disulphide	Not Listed
97-74-5	Tetramethylthiuram monosulfide	Not Listed
1333-86-4	Bounded Carbon Black	Not Listed
64742-52-5	Distillates (petroleum), hydrotreated heavy naphthenic	Not Listed
1332-58-7	Kaolin	Not Listed
57-11-4	Stearic acid	Not Listed
68610-51-5	Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	Not Listed
8042-47-5	White Mineral Oil	Not Listed
149-30-4	Benzothiazole-2-thiol	Listed

CERCLA:

1314-13-2	Zinc oxide	Listed	N/A
61617-00-3	1,3-dihydro-4(or 5)-methyl-2H-benzimidazole-2-thione, zinc salt	Listed	N/A

RCRA: None of the ingredients are listed.

Section 112(r) of the Clean Air Act (CAA): None of the ingredients are listed.

Massachusetts Right to Know:

9003-31-0	1,3-Butadiene, 2-methyl-, homopolymer	Not Listed
1333-86-4	Bounded Carbon Black	Listed
1314-13-2	Zinc oxide	Listed
61617-00-3	1,3-dihydro-4(or 5)-methyl-2H-benzimidazole-2-thione, zinc salt	Not Listed
135-57-9	2,2' Dibenzamido diphenyl disulphide	Not Listed
120-78-5	Di(benzothiazol-2-yl) disulphide	Not Listed
103-34-4	Di(morpholin-4-yl) disulphide	Not Listed
97-74-5	Tetramethylthiuram monosulfide	Not Listed

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 03.02.2018

Page 15 of 17

Revision date: 09.29.2020

Tread Rope Rubber

64742-52-5	Distillates (petroleum), hydrotreated heavy naphthenic	Listed
1332-58-7	Kaolin	Listed
57-11-4	Stearic acid	Not Listed
68610-51-5	Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	Not Listed
8042-47-5	White Mineral Oil	Listed
149-30-4	Benzothiazole-2-thiol	Not Listed

New Jersey Right to Know:

9003-31-0	1,3-Butadiene, 2-methyl-, homopolymer	Not Listed
1314-13-2	Zinc oxide	Listed
61617-00-3	1,3-dihydro-4(or 5)-methyl-2H-benzimidazole-2-thione, zinc salt	Not Listed
135-57-9	2,2' Dibenzamido diphenyl disulphide	Not Listed
120-78-5	Di(benzothiazol-2-yl) disulphide	Not Listed
103-34-4	Di(morpholin-4-yl) disulphide	Not Listed
97-74-5	Tetramethylthiuram monosulfide	Not Listed
1333-86-4	Bounded Carbon Black	Listed
64742-52-5	Distillates (petroleum), hydrotreated heavy naphthenic	Listed
1332-58-7	Kaolin	Listed
57-11-4	Stearic acid	Not Listed
68610-51-5	Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	Not Listed
8042-47-5	White Mineral Oil	Listed
149-30-4	Benzothiazole-2-thiol	Listed

New York Right to Know:

9003-31-0	1,3-Butadiene, 2-methyl-, homopolymer	Not Listed
1314-13-2	Zinc oxide	Listed
61617-00-3	1,3-dihydro-4(or 5)-methyl-2H-benzimidazole-2-thione, zinc salt	Not Listed
135-57-9	2,2' Dibenzamido diphenyl disulphide	Not Listed
120-78-5	Di(benzothiazol-2-yl) disulphide	Not Listed
103-34-4	Di(morpholin-4-yl) disulphide	Not Listed
97-74-5	Tetramethylthiuram monosulfide	Not Listed

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 03.02.2018

Page 16 of 17

Revision date: 09.29.2020

Tread Rope Rubber

1333-86-4	Bounded Carbon Black	Not Listed
64742-52-5	Distillates (petroleum), hydrotreated heavy naphthenic	Not Listed
1332-58-7	Kaolin	Not Listed
57-11-4	Stearic acid	Not Listed
68610-51-5	Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	Not Listed
8042-47-5	White Mineral Oil	Not Listed
149-30-4	Benzothiazole-2-thiol	Not Listed

Pennsylvania Right to Know:

9003-31-0	1,3-Butadiene, 2-methyl-, homopolymer	Not Listed
1314-13-2	Zinc oxide	Listed
61617-00-3	1,3-dihydro-4(or 5)-methyl-2H-benzimidazole-2-thione, zinc salt	Not Listed
135-57-9	2,2' Dibenzamido diphenyl disulphide	Not Listed
120-78-5	Di(benzothiazol-2-yl) disulphide	Not Listed
103-34-4	Di(morpholin-4-yl) disulphide	Not Listed
97-74-5	Tetramethylthiuram monosulfide	Not Listed
1333-86-4	Bounded Carbon Black	Listed
64742-52-5	Distillates (petroleum), hydrotreated heavy naphthenic	Listed
1332-58-7	Kaolin	Listed
57-11-4	Stearic acid	Not Listed
68610-51-5	Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	Not Listed
8042-47-5	White Mineral Oil	Listed
149-30-4	Benzothiazole-2-thiol	Not Listed

California Proposition 65:

⚠ WARNING: This product can expose you to 2-Mercapto Benzothiazole; which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 03.02.2018

Page 17 of 17

Revision date: 09.29.2020

Tread Rope Rubber

this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

NFPA: 2-0-0

HMIS: 2-0-0

Initial preparation date: 03.02.2018

Revision date: 09.29.2020

End of Safety Data Sheet