



Safety Data Sheet

According to Regulation (EC) No 1272/2008 (CLP) and (EC) No 1907/2006 (REACH)

Initial preparation date: 03.02.2018

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Tread Rope Rubber

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

1.1 Product identifier

Product Name: Tread Rope Rubber

Product code: TRR

Additional information: Rev 1.0

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

Relevant identified uses: Tire repair

Uses advised against: Not determined or not applicable.

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

1.3 Details of the manufacturer/supplier of the safety data sheet

Manufacturer:

North America

Tech International
200 East Coshocton Street
Johnstown, OH 43031
1-740-967-9015

Supplier:

United Kingdom

Tech International Europe
15 Ballinderry Road
Lisburn, BT28 2SA, UK
0044 2892 665721
info@techeurope.co.uk

1.4 Emergency telephone number:

United Kingdom

CHEMTREC

UK (London) +(44)-870-8200418

SECTION 2: Hazard(s) identification

2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) No1278/2008 (CLP):

Skin sensitization, category 1

Reproductive toxicity, category 2

Acute aquatic hazard, category 2

Chronic aquatic hazard, category 2

Hazard-determining components of labeling:

1,3-Butadiene, homopolymer

Zinc oxide

Zinc 2-mercaptoluimidazole

Distillates (petroleum), hydrotreated heavy naphthenic

2-Mercapto Benzothiazole

2,2' Dibenzamido diphenyl disulphide

Benzothiazole disulfide

Dimorpholino Disulfide

Tetramethylthiuram monosulfide

Phenol, 4-Methyl-, Reaction Products With Dicyclopentadiene And Isobutylene

2.2 Label elements

Hazard pictograms:

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Signal word: Warning

Hazard statements:

- H317 May cause an allergic skin reaction.
- H361 Suspected of damaging fertility or the unborn child.
- H401 Toxic to aquatic life.
- H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P201 Obtain special instructions before use.
- P273 Avoid release to the environment.
- P321 Specific treatment (see supplemental first aid instructions on this label).
- P363 Wash contaminated clothing before reuse.
- P302+P352 If on skin: Wash with soap and water.
- P333+P313 If skin irritation or a rash occurs: Get medical advice/attention.
- P308+P313 If exposed or concerned: Get medical advice/attention.
- P391 Collect spillage.
- P405 Store locked up.
- P501 Dispose of contents and container as instructed in Section 13.

2.3 Other hazards: None known

SECTION 3: Composition/information on ingredients

3.1 Substance: Not applicable.

3.2 Mixture:

Identification	Name	Classification according to Regulation (EC) No1278/2008 (CLP)	Weight %
CAS number: 9003-31-0	Polyisoprene	Not classified	30-35
CAS number: 1333-86-4	Carbon Black	Not classified	20-25
CAS number: 1332-58-7	Kaolin clay	Not classified	7-9
CAS number: 64742-52-5	Hydrotreated heavy naphthenic distillates	Not classified	6-8
CAS number: 1314-13-2	Zinc oxide	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	2-3
CAS number: 8042-47-5	White Mineral Oil	Not classified	0.5-1
CAS number: 57-11-4	Stearic acid	Not classified	<1
CAS number: 68610-51-5	Phenol, 4-Methyl-, Reaction Products With Dicyclopentadiene And Isobutylene	Repr. 2; H361 Aquatic Chronic 4; H413	<1

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CAS number: 97-74-5	Tetramethylthiuram monosulfide	Acute Tox. 4; H302 Skin Sens. 1; H317 Aquatic Chronic 2; H411	<0.5
CAS number: 61617-00-3	Zinc 2-mercaptoluimidazole	Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Corr. 1B; H314 Stot RE 2; H373 Repr. 2; H361 Aquatic Chronic 1; H410	<0.5
CAS number: 103-34-4	Dimorpholino Disulfide	Skin Sens. 1; H317 Stot SE 3; H335 Aquatic Acute 2; H401 Aquatic Chronic 2; H411	<0.5
CAS number: 120-78-5	Benzothiazole disulfide	Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	<0.5
CAS number: 149-30-4	2-Mercapto Benzothiazole	Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	<0.5
CAS number: 135-57-9	2,2' Dibenzamido diphenyl disulphide	Skin Sens. 1; H317 Aquatic Chronic 4; H413	<0.2

Additional information:

According to Note L of the European Directive 67/548/CEE, the "distillates (petroleum)" substances should not be classified as "carcinogenic" ingredients, because it has been shown that the substances contain less than 3% DMSO extract as measured by IP 346.

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.

Full Text of H and EUH statements: See section 16

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes:

Not determined or not available.

Following inhalation:

Loosen clothing as necessary and position individual in a comfortable position

Maintain an unobstructed airway

Get medical advice/attention if you feel unwell

Following skin contact:

Rinse affected area with soap and water

If symptoms develop or persist, seek medical attention

Following eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes

If symptoms develop or persist, seek medical attention

Following ingestion:

Rinse mouth thoroughly

Seek medical attention if irritation, discomfort, or vomiting persists

4.2 Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

Not determined or not available.

Delayed symptoms and effects:

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Not determined or not available.

4.3 Indication of any immediate medical attention and special treatment needed

Specific treatment:

Not determined or not available.

Notes for the doctor:

Not determined or not available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition.

Unsuitable extinguishing media:

Not determined or not applicable.

5.2 Special hazards arising from the substance or mixture:

Thermal decomposition can lead to release of irritating gases and vapors.

5.3 Advice for firefighters

Personal protection equipment:

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit.

Special precautions:

Carbon monoxide and carbon dioxide may form upon combustion.

Heating causes a rise in pressure, risk of bursting and combustion.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation.

Ensure air handling systems are operational.

Wear protective eye wear, gloves and clothing.

6.2 Environmental precautions:

Should not be released into the environment.

Prevent from reaching drains, sewer or waterway.

6.3 Methods and material for containment and cleaning up:

Wear protective eye wear, gloves and clothing.

Sweep or scoop up solid material while minimizing dust generation.

Dispose of contents / container in accordance with local regulations.

6.4 Reference to other sections:

Not determined or not applicable.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:

Use only with adequate ventilation.

Avoid breathing dust.

Do not eat, drink, smoke or use personal products when handling chemical substances.

7.2 Conditions for safe storage, including any incompatibilities:

Keep container tightly sealed.

Keep container dry.

Store in a cool, well-ventilated area.

7.3 Specific end use(s):

Not determined or not applicable.

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SECTION 8: Exposure controls/personal protection



8.1 Control parameters

Only those substances with limit values have been included below.

Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
Croatia	Carbon Black	1333-86-4	Dangerous Substances Exposure Limit Values in the Workplace: 3.5 mg/m ³ (8hr); 7.0 mg/m ³ (15 min)
	Kaolin clay	1332-58-7	Maximum (8 hr) allowable concentration: 2 mg/m ³ (respirable dust)
	Zinc oxide	1314-13-2	Maximum (8 hr) allowable concentration: 5 mg/m ³
	Zinc oxide	1314-13-2	Short-term (15 min) allowable concentration: 10 mg/m ³
Cyprus	Carbon Black	1333-86-4	Control of factory atmosphere and dangerous substances in factories regulation: TWA 3.5 mg/m ³ (8 hr)
	Zinc oxide	1314-13-2	8-hour TWA: 5.0 mg/m ³ (Fumes)
Czech Republic	Carbon Black	1333-86-4	Government Decree 361/2007 Sb.: TWA 2.0 mg/m ³ (8 hr)
	Kaolin clay	1332-58-7	8-hour TWA: 5.0 mg/m ³
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-hour TWA: 5 mg/m ³ (Mineral oils, aerosol)
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-hour TWA: 200 mg/m ³ (Solvent naphtha)
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	Ceiling limit (NPK-P): 10 mg/m ³ (Mineral oils, aerosol)
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	Ceiling limit (NPK-P): 1000 mg/m ³ (Solvent naphtha)
	Zinc oxide	1314-13-2	8-hour TWA: 2 mg/m ³ (as Zn)
	Zinc oxide	1314-13-2	Ceiling limit (NPK-P): 5 mg/m ³ (Fumes)
Poland	Carbon Black	1333-86-4	Dz.U.Poz. 817/2014, Annex 1: TWA (NDS) 4.0 mg/m ³ (8 hr)
	Kaolin clay	1332-58-7	8-hour TWA: 6 mg/m ³
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-hour TWA (NDS): 5 mg/m ³ (Highly refined mineral oils with the exception of cutting fluids, Inhalable fraction)
	Zinc oxide	1314-13-2	8-hour TWA (NDS): 5 mg/m ³ (Inhalable fraction, as Zn)
	Zinc oxide	1314-13-2	15-minute STEL (NDSch): 10 mg/m ³ (Inhalable fraction, as Zn)

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
Slovakia	Carbon Black	1333-86-4	Regulation No. 355.2006 concerning protection of workers exposed to chemical agents, Annex 1: TWA (NPEL) 2.0 mg/m ³
	Zinc 2-mercaptoluimidazole	61617-00-3	8-hour TWA (NPEL): 2 mg/m ³
	Kaolin clay	1332-58-7	8-hour TWA (NPEL): 2 mg/m ³
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-hour TWA (NPEL): 5 ppm (1 mg/m ³) [Liquid mineral oil mist, fumes]
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	15-minute STEL (NPEL): 15 ppm (3 mg/m ³) [Liquid mineral oil mist, fumes]
	Zinc oxide	1314-13-2	8-hour TWA (NPEL): 1 mg/m ³ [Fumes (Respirable fraction)]
	Zinc oxide	1314-13-2	15-minute STEL (NPEL): 1 mg/m ³ [Fumes (Respirable fraction)]
	Zinc oxide	1314-13-2	8-hour TWA (NPEL): 0.1 mg/m ³ [Zinc and its inorganic compounds (Respirable fraction)]
	Zinc oxide	1314-13-2	8-hour TWA (NPEL): 2 mg/m ³ [Zinc and its inorganic compounds (Inhalable fraction)]
	2-Mercapto Benzothiazole	149-30-4	8-hour TWA (NPEL): 4.0 mg/m ³
Belgium	Carbon Black	1333-86-4	Exposure Limit Value: TWA 3.5 mg/m ³ (8 hr)
	Stearic acid	57-11-4	8-hour TWA: 10 mg/m ³ (as stearates)
	Kaolin clay	1332-58-7	8-hour TWA: 2 mg/m ³ (respirable fraction)
	Kaolin clay	1332-58-7	8-hour TWA: 10 mg/m ³ (inhalable fraction)
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-hour TWA: 5 mg/m ³
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	15-minute STEL: 10 mg/m ³
	Zinc oxide	1314-13-2	8-hour TWA: 5 mg/m ³ (Fumes)
	Zinc oxide	1314-13-2	15-minute STEL: 10 mg/m ³ (Fumes)
	Zinc oxide	1314-13-2	8-hour TWA: 10 mg/m ³ (Dusts)
Denmark	Carbon Black	1333-86-4	Exposure Limits for Substances & Materials: TWA 3.5 mg/m ³
	Kaolin clay	1332-58-7	TWA: 2 mg/m ³
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	TWA: 1 mg/m ³
	Zinc oxide	1314-13-2	TWA: 4 mg/m ³
Finland	Carbon Black	1333-86-4	Workplace Exposure Limits: 3.5 mg/m ³ (8 hr); 7.0 mg/m ³ (15 min)
	Kaolin clay	1332-58-7	8-hour limit: 2 mg/m ³
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-hour limit: 5 mg/m ³
	Zinc oxide	1314-13-2	8-hour limit: 2 mg/m ³

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
France	Zinc oxide	1314-13-2	15-minute limit: 10 mg/m ³
	Carbon Black	1333-86-4	Threshold Limit Values (VLEP): Time weighted average (VME) 3.5 mg/m ³
	Kaolin clay	1332-58-7	Time weighted average (VME): 10 mg/m ³
	Zinc oxide	1314-13-2	Time weighted average (VME): 5 mg/m ³ (Fumes)
Greece	Zinc oxide	1314-13-2	Time weighted average (VME): 10 mg/m ³ (Dusts)
	Carbon Black	1333-86-4	Decree 307/1986: TWA 3.5mg/m ³ (8 hr); STEL 7.0 mg/m ³ (15 min)
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-hour TWA: 5 mg/m ³ [Paraffin oil (Mist)]
	Zinc oxide	1314-13-2	8-hour TWA: 5 mg/m ³ (Fumes)
Ireland	Zinc oxide	1314-13-2	15-minute STEL: 10 mg/m ³ (Fumes)
	Carbon Black	1333-86-4	2016 Code of Practice for Chemical Agents Regulations 2001: TWA 3.0 mg/m ³ (8 hr) OEL
	Stearic acid	57-11-4	8-hour TWA: 10 mg/m ³ (as stearates, except lead stearate)
	Kaolin clay	1332-58-7	8-hour OEL (TWA): 2.0 mg/m ³ (respirable dust)
Italy	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-hour OEL (TWA): 5 mg/m ³ (Mineral oil, pure, highly and severely refined; Inhalable fraction)
	Carbon Black	1333-86-4	Legislative Decree n.81: TWA 3.0 mg/m ³ (8 hr)
	Stearic acid	57-11-4	8-hour TWA: 3 mg/m ³ [Stearates (except stearates of toxic metals), Respirable fraction]
	Stearic acid	57-11-4	8-hour TWA: 10 mg/m ³ [Stearates (except stearates of toxic metals), Inhalable fraction]
	Kaolin clay	1332-58-7	8-hour TWA: 2 mg/m ³ (Respirable fraction)
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-hour TWA: 5 mg/m ³ (Mineral oil, excluding metal working fluids, pure, highly and severely refined; Inhalable fraction)
	Zinc oxide	1314-13-2	8-hour TWA: 2 mg/m ³ (Respirable fraction)
Portugal	Zinc oxide	1314-13-2	15-minute STEL: 10 mg/m ³ (Respirable fraction)
	Carbon Black	1333-86-4	VLE: 3.5 mg/m ³ (8 hr)
	Stearic acid	57-11-4	8-hour Exposure Limit: 10 mg/m ³ (as stearates)
	Kaolin clay	1332-58-7	8-hour exposure limit: 2 mg/m ³
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-hour exposure limit: 5 mg/m ³

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	Short-term exposure limit: 10 mg/m ³
	Zinc oxide	1314-13-2	8-hour exposure limit: 2 mg/m ³
	Zinc oxide	1314-13-2	Short-term exposure limit: 10 mg/m ³
Spain	Carbon Black	1333-86-4	VLA: VLA_ED 3.5 mg/m ³ (8 hr)
	Stearic acid	57-11-4	8-hour daily exposure limit (VLA_ED): 10 mg/m ³ [Stearates (except stearates of toxic metals)]
	Kaolin clay	1332-58-7	8-hour daily exposure limit (VLA_ED): 2 mg/m ³
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-hour daily exposure limit (VLA_ED): 5 mg/m ³
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	15-minute STEL (VLA-EC): 10 mg/m ³
	Zinc oxide	1314-13-2	8-hour daily exposure limit (VLA_ED): 2 mg/m ³
	Zinc oxide	1314-13-2	15-minute STEL (VLA-EC): 10 mg/m ³
United Kingdom	Carbon Black	1333-86-4	WEL: TWA 3.5 mg/m ³ ; STEL 7.0 mg/m ³
	Kaolin clay	1332-58-7	TWA: 2 mg/m ³ (respirable dust)
Germany	Zinc 2-mercaptoluimidazole	61617-00-3	8-hour TWA: 0.1 mg/m ³ (Zinc and its inorganic compounds, Respirable fraction)
	Zinc 2-mercaptoluimidazole	61617-00-3	8-hour TWA: 2 mg/m ³ (Zinc and its inorganic compounds, Inhalable fraction)
	Kaolin clay	1332-58-7	AGW Limit value: 1.25 mg/m ³ (respirable fraction)
	Kaolin clay	1332-58-7	AGW limit value: 10 mg/m ³ (inhalable fraction)
	2-Mercapto Benzothiazole	149-30-4	8-Hour TWA: 4 mg/m ³
Lithuania	Stearic acid	57-11-4	8-hour TWA: 5 mg/m ³
	Kaolin clay	1332-58-7	8-hour TWA: 10 mg/m ³ (inhalable fraction)
	Kaolin clay	1332-58-7	8-hour TWA: 5 mg/m ³ (respirable fraction)
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-hour TWA: 1 mg/m ³ (Oil mist, including smoke)
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	15-minute STEL: 3 mg/m ³ (Oil mist, including smoke)
	Zinc oxide	1314-13-2	8-hour TWA: 5 mg/m ³
Sweden	Stearic acid	57-11-4	Level Limit Value (NGV): 5 mg/m ³ (as stearates, total dust)
	Kaolin clay	1332-58-7	Level Limit Value (NGV): 5 mg/m ³ (respirable dust)
	Kaolin clay	1332-58-7	Level Limit Value (NGV): 10 mg/m ³ (inhalable dust)
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	Level Limit Value (NGV): 1 mg/m ³ (Oil mist including oil fume)

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	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	Short Term Limit (KTV): 3 mg/m ³ (Oil mist including oil fume)
	Zinc oxide	1314-13-2	Level Limit Value (NGV): 5 mg/m ³ (Total dust)
Bulgaria	Kaolin clay	1332-58-7	TWA: 6.0 mg/m ³ (inhalable fraction)
	Kaolin clay	1332-58-7	TWA: 3.0 mg/m ³ (respirable fraction)
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	TWA: 5.0 mg/m ³
	Zinc oxide	1314-13-2	TWA: 5.0 mg/m ³
	Zinc oxide	1314-13-2	15-minute STEL: 10.0 mg/m ³
Estonia	Kaolin clay	1332-58-7	8-hour TWA: 10 mg/m ³ (total dust)
	Kaolin clay	1332-58-7	8-hour TWA: 5 mg/m ³ (fine dust)
	Zinc oxide	1314-13-2	8-hour TWA: 5 mg/m ³
Hungary	Kaolin clay	1332-58-7	8-hour TWA (ÁK Value): 10 mg/m ³ (total, inhalable)
	Kaolin clay	1332-58-7	8-hour TWA (ÁK Value): 5 mg/m ³ (Respirable)
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	Ceiling Limit (MK Value): 5 mg/m ³ [Oil smog (mineral oil)]
	Zinc oxide	1314-13-2	8-hour TWA (ÁK Value): 5 mg/m ³ (Respirable)
	Zinc oxide	1314-13-2	60-minute STEL (CK Value): 20 mg/m ³ (Respirable)
Latvia	Kaolin clay	1332-58-7	8-hour TWA: 2 mg/m ³
	Zinc oxide	1314-13-2	8-hour TWA: 0.5 mg/m ³
Romania	Kaolin clay	1332-58-7	8-hour TWA: 2 mg/m ³ (inhalable fraction)
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-hour TWA: 5 mg/m ³ (Mineral oils)
	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	15-minute STEL: 10 mg/m ³ (Mineral oils)
	Zinc oxide	1314-13-2	8-hour TWA: 5 mg/m ³ (Fumes)
	Zinc oxide	1314-13-2	15-minute STEL: 10 mg/m ³ (Fumes)
European Union	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	8-hour TWA: 5 mg/m ³
Netherlands	Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	Binding 8-hour TWA: 5 mg/m ³ [Oil mist (Mineral oil)]
Slovenia	Zinc oxide	1314-13-2	8-hour TWA: 5 mg/m ³ [Fumes (Respirable fraction)]
	Zinc oxide	1314-13-2	STEL: 20 mg/m ³ [Fumes (Respirable fraction)]

Biological limit values:

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

Derived No Effect Level (DNEL):

Not determined or not applicable.

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Predicted No Effect Concentration (PNEC):

Not determined or not applicable.

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

8.2 Exposure controls

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.

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 European Standard EN149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Comply with the European Standard EN149.

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.

Environmental exposure controls:

Select controls based on a risk assessment of local conditions.

See section 6 for information on accidental release measures.

SECTION 9: Physical and chemical properties

9.1 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.

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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.

9.2 Other information

SECTION 10: Stability and reactivity

10.1 Reactivity:

Does not react under normal conditions of use and storage.

10.2 Chemical stability:

Stable under normal conditions of use and storage.

10.3 Possibility of hazardous reactions:

None under normal conditions of use and storage.

10.4 Conditions to avoid:

None known.

10.5 Incompatible materials:

Strong acids, bases, and oxidizers.

10.6 Hazardous decomposition products:

None known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

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

Product data: No data available.

Substance data:

Name	Route	Result
Zinc 2-mercaptoluimidazole	oral	LD50 Rat: 800 mg/kg
	inhalation	LC50: (4 h) 2.12 mg/L
	dermal	LD50 Rat: 2,000 mg/kg
Dimorpholino Disulfide	oral	LD50: Rat - male and female - 5,600 mg/kg
Tetramethylthiuram monosulfide	oral	LD50 Rat: 450 mg/kg

Skin corrosion/irritation

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

Product data:

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No data available.

Substance data: No data available.

Serious eye damage/irritation

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

Product data:

No data available.

Substance data:

Name	Result
Hydrotreated heavy naphthenic distillates	Expected to be slightly irritating.

Respiratory or skin sensitization

Assessment: May cause an allergic skin reaction

Product data:

No data available.

Substance data:

Name	Result
Zinc 2-mercaptoluimidazole	May cause skin sensitization.
2,2' Dibenzamido diphenyl disulphide	Sensitization possible through skin contact.
Benzothiazole disulfide	May cause sensitization by skin contact.
Dimorpholino Disulfide	Mild skin irritation - 24 h Mild eye irritation - 24 h
Tetramethylthiuram monosulfide	May cause an allergic skin reaction.
2-Mercapto Benzothiazole	May cause an allergic skin reaction.

Carcinogenicity

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

Product data: No data available.

Substance data:

Name	Species	Result
Hydrotreated heavy naphthenic distillates	Distillates (petroleum), hydrotreated heavy naphthenic	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
Carbon Black	Carbon Black	The IARC carcinogenic classification and California Proposition 65 Warning only apply to airborne, unbound particles of respirable size of Carbon Black.

International Agency for Research on Cancer (IARC):

Name	Classification
Polyisoprene	Group 3 - Not classifiable as to its carcinogenicity to humans
Carbon Black	Group 2B - Possibly carcinogenic to humans

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:

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Name	Result
Dimorpholino Disulfide	Ames test S. Typhimurium negative

Reproductive Toxicity

Assessment: Suspected of damaging fertility or the unborn child

Product data:

No data available.

Substance data:

Name	Result
Phenol, 4-Methyl-, Reaction Products With Dicyclopentadiene And Isobutylene	Suspected of damaging the unborn child if exposed orally.

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
Zinc 2-mercaptoluimidazole	May cause damage to organs through prolonged or repeat exposure

Specific target organ toxicity (repeated exposure)

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

Product data:

No data available.

Substance data: No data available.

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:

No data available.

Other information:

No data available.

SECTION 12: Ecological information

12.1 Toxicity

Acute (short-term) toxicity

Assessment: Toxic to aquatic life

Product data: No data available.

Substance data:

Name	Result
Zinc oxide	Oncorhynchus mykiss (rainbow trout) - 1.1 mg/l - 96.0 h
	Daphnia magna (Water flea) - 0.098 mg/l - 48 h

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Name	Result
Phenol, 4-Methyl-, Reaction Products With Dicyclopentadiene And Isobutylene	NOEC - Selenastrum capricornutum (green algae) - > 0.2 mg/l - 72 h
Zinc 2-mercaptoluimidazole	LC50 (4 days): 5.6 mg/L
	NOEC (21 days): 34.6 - 103.5 µg/L
	EC50 (72 h): 6.6 - 10 mg/L
Dimorpholino Disulfide	Oncorhynchus mykiss (rainbow trout) - 3.68 mg/l - 96 h
	Daphnia magna (Water flea) - 4.5 mg/l - 48 h
	Selenastrum capricornutum (green algae) - 35 mg/l - 72 h
Tetramethylthiuram monosulfide	EC50 - Chlorella pyrenoidosa (Green Algae) - 1.0 mg/L - 4 d
	EC50 - Oncorhynchus mykiss (Rainbow Trout) - 0.017 mg/L - 60 d
	NOEC - Daphnia magna - 0.006 mg/L - 21 d
2-Mercapto Benzothiazole	Oncorhynchus mykiss (rainbow trout) - 0.73 mg/l - 96 h
	Daphnia magna (Water flea) - 0.71 mg/l - 48 h
	Selenastrum capricornutum (green algae) - 0.5 mg/l - 72 h

Chronic (long-term) toxicity

Product data: No data available.

Substance data: No data available.

12.2 Persistence and degradability

Product data: No data available.

Substance data: No data available.

12.3 Bioaccumulative potential

Product data: No data available.

Substance data: No data available.

12.4 Mobility in soil

Product data: No data available.

Substance data: No data available.

12.5 Results of PBT and vPvB assessment

PBT assessment: This product does not contain any substances that are assessed to be a PBT.

vPvB assessment: This product does not contain any substances that are assessed to be a vPvB.

12.6 Other adverse effects: No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Relevant information:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities

SECTION 14: Transport information

International Carriage of Dangerous Goods by Road/Rail (ADR/RID)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None

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Environmental hazards	None
Special precautions for user	None

International Carriage of Dangerous Goods by Inland Waterways (ADN)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

International Maritime Dangerous Goods (IMDG)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

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

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

SECTION 15: Regulatory information

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

European regulations

Inventory listing (EINECS):

9003-31-0	Polyisoprene	Not Listed
1333-86-4	Bounded Carbon Black	Listed
68610-51-5	Phenol, 4-Methyl-, Reaction Products With Dicyclopentadiene And Isobutylene	Listed
97-74-5	Tetramethylthiuram monosulfide	Listed
61617-00-3	Zinc 2-mercaptolimidazole	Listed
135-57-9	2,2' Dibenzamido diphenyl disulphide	Listed
57-11-4	Stearic acid	Listed
1332-58-7	Kaolin clay	Listed
103-34-4	Dimorpholino Disulfide	Listed
64742-52-5	Distillates (petroleum), hydrotreated heavy naphthenic	Listed
120-78-5	Benzothiazole disulfide	Listed

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1314-13-2	Zinc oxide	Listed
149-30-4	2-Mercapto Benzothiazole	Listed
8042-47-5	White Mineral Oil	Listed

REACH SVHC candidate list: Not determined.

REACH SVHC Authorizations: Not determined.

REACH Restriction: Not determined.

Water hazard class (WGK) (Product): Not determined.

Water hazard class (WGK) (Substance): Not determined.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: Other information

Indication of changes:

Not applicable.

Abbreviations and Acronyms: None

Classification procedure:

Classification according to Regulation (EC) No1278/2008 (CLP)	Method Used
Skin sensitization, category 1	
Reproductive toxicity, category 2	
Acute aquatic hazard, category 2	
Chronic aquatic hazard, category 2	

Summary of classification in section 3:

Aquatic Acute 1; H400	Acute aquatic hazard, category 1
Aquatic Chronic 1; H410	Chronic aquatic hazard, category 1
Repr. 2; H361	Reproductive toxicity, category 2
Aquatic Chronic 4; H413	Chronic aquatic hazard, category 4
Acute Tox. 4; H302	Acute toxicity (oral), category 4
Skin Sens. 1; H317	Skin sensitization, category 1
Aquatic Chronic 2; H411	Chronic aquatic hazard, category 2
Acute Tox. 4; H332	Acute toxicity (inhalation), category 4
Skin Corr. 1B; H314	Skin corrosion, category 1B
Stot RE 2; H373	Specific target organ toxicity - repeated exposure, category 2
Stot SE 3; H335	Specific target organ toxicity - single exposure, category 3, respiratory irritation
Aquatic Acute 2; H401	Acute aquatic hazard, category 2

Summary of hazard statements in section 3:

H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H361	Suspected of damaging fertility or the unborn child
H413	May cause long lasting harmful effects to aquatic life
H302	Harmful if swallowed
H317	May cause an allergic skin reaction
H411	Toxic to aquatic life with long lasting effects
H332	Harmful if inhaled
H314	Causes severe skin burns and eye damage
H373	May cause damage to organs through prolonged or repeated exposure
H335	May cause respiratory irritation
H401	Toxic to aquatic life

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Disclaimer:

This product has been classified in accordance with EC 1272/2008 (CLP) and EC 1907/2006 (REACH). The information provided in 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: 1-0-0

HMIS: 1-0-0

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End of Safety Data Sheet