

Safety Data Sheet

according to SOR/2015-17, Hazardous Products Regulations (HPR) , as amended by SOR/2022-272
Issue date: 04-01-2026 Version: 1.0

SECTION 1 Identification

1.1. GHS Product identifier

Product form : Mixture
Product name : Group 2- Heat Resistant SAR Cover Stock
Product code : 1008

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture : Manufacture of rubber products
Recommended use : Manufacture of rubber products
Restrictions on use : Not determined

1.4. Supplier's details

Fenner Dunlop Americas
200 Corporate Center Drive, Suite 220
Coraopolis, PA, 15108
T 412-249-0700
info@fennerdunlop.com

1.5. Emergency phone number

Emergency number : CHEMTREC, U.S. : 1-800-424-9300 International: +1-703-527-3877 (24/7)

SECTION 2 Hazard identification

2.1. Classification of the substance or mixture


Classification (GHS CA)

Respiratory sensitization, Category 1	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitization, Category 1	H317	May cause an allergic skin reaction.
Carcinogenicity, Category 1B	H350	May cause cancer.
Combustible Dust		May form combustible dust concentrations in air.

Full text of H statements : see section 16

2.2. GHS label elements, including precautionary statements

GHS CA labeling

Hazard pictograms (GHS CA) : 

Signal word (GHS CA) : Danger

Hazard statements (GHS CA) : H Comb Dust - May form combustible dust concentrations in air
H317 - May cause an allergic skin reaction
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
H350 - May cause cancer.

Precautionary statements (GHS CA) : P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.

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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, and hearing protection.
P284 - Wear respiratory protection.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P313 - IF exposed or concerned: Get medical advice or attention.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P333+P313 - If skin irritation or rash occurs: Get medical advice or attention.
P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER or a doctor.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P405 - Store locked up.
P501 - Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

2.3. Other hazards which do not result in classification

No additional information available

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	wt%	Classification (GHS CA)
Distillates, petroleum, hydrotreated heavy naphthenic	Petroleum distillates, hydrotreated heavy naphthenic / Distillates (petroleum), hydrotreated heavy naphthenic / Distillates (petroleum) hydrotreated heavy naphthenic / Distillates, petroleum, hydrotreated heavy naphthenic (A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C20-50 and produces a finished oil of at least 100 SUS at 100°F (19cSt at 40°C). It contains relatively few normal paraffins.) / Petroleum distillate hydrotreated heavy naphthenic / Naphtha, hydrotreated heavy distillate / Hydrotreated heavy alkanes / Hydrotreated (severe) heavy naphthenic distillates (petroleum)	CAS-No.: 64742-52-5	7 – 13	Carc. 1B, H350

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Name	Chemical name / Synonyms	Product identifier	wt%	Classification (GHS CA)
Resin acids and rosin acids, potassium salts	Resin acids and Rosin acids, potassium salts / Disproportionated rosin acid, potassium salt / Potassium salt of wood rosin acids / Rosin acids, potassium salts / Rosin, disproportionated, potassium salt / Rosin, potassium salt / Potassium resinate / Potassium rosinat / Rosin or rosin acid, potassium salt / Potassium salts of: resin acids; rosin acids	CAS-No.: 61790-50-9	1 – 5	Eye Irrit. 2, H319

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Name	Chemical name / Synonyms	Product identifier	wt%	Classification (GHS CA)
1,4-Benzenediamine, N1-(1,3-dimethylbutyl)-N4-phenyl-	N-1,3-Dimethylbutyl-N'-phenyl-p-phenylenediamine / p-Phenylenediamine, N-(1,3-dimethylbutyl)-N'-phenyl- / 1,4-Benzenediamine, N-(1,3-dimethylbutyl)-N'-phenyl- / N-(1,3-Dimethylbutyl)-N'-phenyl-p-phenylenediamine / N-(1,3-Dimethylbutyl)-N'-phenyl-, 1,4-phenylenediamine / N-(1,3-Dimethylbutyl)-N'-phenyl-1,4-phenylenediamine / N-(1,3-Dimethylbutyl)-N'-phenyl-1,4-benzenediamine / N-(1,3-Dimethylbutyl)-N'-phenylbenzene-1,4-diamine / N-1,3-Dimethylbutyl-N'-phenyl-1,4-phenylenediamine / N(1,3-Dimethylbutyl)-N'-phenyl-p-phenylenediamine / 6PPD / N-(1,3-Dimethylbutyl)-N-phenyl-p-phenylenediamine (6PPD) / 4-(Dimethylbutylamino)diphenylamin	CAS-No.: 793-24-8	1 – 5	Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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Name	Chemical name / Synonyms	Product identifier	wt%	Classification (GHS CA)
N-tert-Butyl-2-benzothiazolesulfenamide	2-Benzothiazolesulfenamide, N-(1,1-dimethylethyl)- / 2-Benzothiazolesulfenamide, N-tert-butyl- / 2-(tert-Butylaminothio)benzothiazole / N-tert-Butylbenzothiazole-2-sulphenamide / N-(1,1-Dimethylethyl)benzothiazolesulfenamide / N-tert-Butyl-2-benzothiosulfenamide / N-(tert-Butyl)-1,3-benzothiazol-2-sulfenamide / N-tert-Butyl-2-benzothiazolesulphenamide / N-(tert-Butyl)-2-benzothiazolesulphenamide / N-(1,1-Dimethylethyl)-2-benzothiazolesulfenamide / N-(1,3-Benzothiazol-2-ylsulfanyl)-tert-butylamine / N-(tert-Butyl)-2-benzothiazolesulfenamide / tert-Butyl benzthiazylesulfenamide	CAS-No.: 95-31-8	0.1 – 1	Skin Sens. 1, H317 Aquatic Acute 1, H400

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Name	Chemical name / Synonyms	Product identifier	wt%	Classification (GHS CA)
Thiram	Bis((dimethylamino)carbonothioyl) disulphide / Bis(dimethylthiocarbamoyl) disulfide / Bis(dimethylthiocarbamyl) disulfide / Disulfide, bis(dimethylthiocarbamoyl) / N,N,N',N'-Tetramethylthiuram disulfide / Tetramethylthiuram disulphide / Thioperoxydicarbonic diamide, tetramethyl- / Thiuram / Tetramethylthiuram disulfide / TMTD / Bis(dimethylthiocarbonyl) disulfide / Thioperoxydicarbonic diamide ((H ₂ N)C(S)) ₂ S ₂ , N,N,N',N'-tetramethyl- / Tetramethylthioperoxydicarbonic diamide / Thioperoxydicarbonic diamide ((H ₂ N)C(S)) ₂ S ₂ , tetramethyl- / N,N,N',N'-Tetramethyl-2,3-dithiadithiosuccinamide / THIRAM	CAS-No.: 137-26-8	0.1 – 1	Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319 Skin Sens. 1, H317 STOT RE 2, H373 Comb. Dust

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Name	Chemical name / Synonyms	Product identifier	wt%	Classification (GHS CA)
Coumarone-indene resin	Coumarone, indene resins / Coumarone-indene resins / Resin, coumarone-indene / Coumarone indene resins / Coumarone-Indene resins / Benzofuranyl indenyl resin / Polymer benzofurane with indene / Polymerized petroleum hydrocarbon (cyclopentadiene type) / Polymer mainly composed of indene/benzofuran / Resins of the coumarone-indene type	CAS-No.: 63393-89-5	0.1 – 1	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411

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Name	Chemical name / Synonyms	Product identifier	wt%	Classification (GHS CA)
4,4'-Dithiodimorpholine	N,N'-Bismorpholine disulfide / Bismorpholine, 4,4'-dithio- / Di(morpholin-4-yl) disulphide / Dimorpholine disulfide / Disulfide, dimorpholino- / 4,4'-Dithiobis(morpholine) / Dithiobismorpholine / N,N-Dithiodimorpholine / 4,4'-Dithiomorpholine / Morpholine disulfide / Morpholine, 4,4'-dithiobis- / Morpholine, 4,4'-dithiodi- / Morpholinodisulfide / 4,4'-Dithiobismorpholine / Dimorpholino disulfide / Di(morpholin-4-yl) disulfide	CAS-No.: 103-34-4	0.1 – 1	Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 2, H411
Rosin	Gum rosin / Colophony / Colophonium / Rosin, gum / COLOPHONIUM / Rosin (pinus species) and rosin derivatives / ROSIN / Gum resin / Resin acids / Rosin (Pinus species) / Rosin (wood) / Rosin; colophony	CAS-No.: 8050-09-7	0.61	Acute Tox. 4 (Inhalation:dust,mist), H332 Resp. Sens. 1, H334 Skin Sens. 1, H317 Comb. Dust

SECTION 4 First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures after inhalation

: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or a doctor.

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First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.
First-aid measures general	: IF exposed or concerned: Get medical advice/attention. Call a poison center/doctor/physician if you feel unwell.
Personal protection for first-aid responders.	: First-aiders should consider self-protection and use the recommended personal protective equipment (see section 8).

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after inhalation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Symptoms/effects after skin contact	: May cause an allergic skin reaction.
Symptoms/effects after eye contact	: None under normal conditions. Dust from this product may cause eye irritation.
Symptoms/effects after ingestion	: None under normal conditions.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment	: Treat symptomatically.
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SECTION 5 Fire-fighting measures

5.1. Suitable extinguishing media

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

5.2. Specific hazards arising from the chemical

Fire hazard	: May form combustible dust concentrations in air.
Explosion hazard	: No direct explosion hazard.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

5.3. Special protective actions for fire-fighters

Firefighting instructions	: Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Precautionary measures fire	: Evacuate area. Eliminate all ignition sources if safe to do so. Exercise caution when fighting any chemical fire.

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material-damage.
Environmental precautions	: Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.2. Methods and materials for containment and cleaning up

For containment	: Using a clean shovel, put the material in a dry container and cover without compressing it.
Methods for cleaning up	: Mechanically recover the product. Notify authorities if product enters sewers or public waters.
Other information	: Dispose of materials or solid residues at an authorized site.

For further information refer to section 13.

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SECTION 7 Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Ensure good ventilation of the work station. 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. Wear personal protective equipment. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid dust formation.
Hygiene measures	: Separate working clothes from town clothes. Launder separately. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
Additional hazards when processed	: Not expected to present a significant hazard under anticipated conditions of normal use.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Keep in a cool, well-ventilated place away from heat.
Storage conditions	: Store locked up.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

Thiram (137-26-8)	
Canada (Alberta) - Occupational Exposure Limits	
OEL TWA	1 mg/m ³
Canada (Quebec) - Occupational Exposure Limits	
VEMP (OEL TWAEV)	5 mg/m ³
Canada (British Columbia) - Occupational Exposure Limits	
OEL TWA	1 mg/m ³
Canada (Manitoba) - Occupational Exposure Limits	
OEL TWA	0.05 mg/m ³ (inhalable fraction and vapor)
Canada (New Brunswick) - Occupational Exposure Limits	
OEL TWA	0.05 mg/m ³ (inhalable fraction and vapor)
Canada (Newfoundland and Labrador) - Occupational Exposure Limits	
OEL TWA	0.05 mg/m ³ (inhalable fraction and vapor)
Canada (Nova Scotia) - Occupational Exposure Limits	
OEL TWA	0.05 mg/m ³ (inhalable fraction and vapor)
Canada (Nunavut) - Occupational Exposure Limits	
OEL TWA	1 mg/m ³
OEL STEL	3 mg/m ³
Canada (Northwest Territories) - Occupational Exposure Limits	
OEL TWA	1 mg/m ³
OEL STEL	3 mg/m ³

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Thiram (137-26-8)	
Canada (Ontario) - Occupational Exposure Limits	
OEL TWAEV	0.05 mg/m ³ (inhalable fraction and vapor)
Canada (Prince Edward Island) - Occupational Exposure Limits	
OEL TWA	0.05 mg/m ³ (inhalable fraction and vapor)
Canada (Saskatchewan) - Occupational Exposure Limits	
OEL TWA	1 mg/m ³
OEL STEL	3 mg/m ³
Canada (Yukon) - Occupational Exposure Limits	
OEL TWA	5 mg/m ³
OEL STEL	10 mg/m ³
Coumarone-indene resin (63393-89-5)	
Canada (Ontario) - Occupational Exposure Limits	
OEL TWAEV	5 mg/m ³ (total dust)
Rosin (8050-09-7)	
Canada (Quebec) - Occupational Exposure Limits	
VEMP (OEL TWAEV)	0.001 mg/m ³ (inhalable aerosol fraction)
Canada (British Columbia) - Occupational Exposure Limits	
OEL TWA	0.001 mg/m ³ (inhalable)
Canada (Manitoba) - Occupational Exposure Limits	
OEL TWA	0.001 mg/m ³ (inhalable particulate matter)
Canada (Newfoundland and Labrador) - Occupational Exposure Limits	
OEL TWA	0.001 mg/m ³ (inhalable particulate matter)
Canada (Nova Scotia) - Occupational Exposure Limits	
OEL TWA	0.001 mg/m ³ (inhalable particulate matter)
Canada (Prince Edward Island) - Occupational Exposure Limits	
OEL TWA	0.001 mg/m ³ (inhalable particulate matter)

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.
 Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment (PPE)

Personal protective equipment:

Wear recommended personal protective equipment.

Hand protection:				
Protective gloves				
Type	Material	Permeation	Thickness (mm)	Penetration
Disposable gloves	Nitrile rubber (NBR)			

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Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

Personal protective equipment symbol(s):



SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	: Solid
Appearance	: Opaque.
Color	: Black
Odor	: Odorless
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: Not applicable
Explosion limits	: Not applicable
Particle characteristics	: No data available

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10 Stability and reactivity

Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: Avoid dust formation. Heat. No flames, no sparks. Eliminate all sources of ignition.

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Incompatible materials	: Strong oxidizing agents.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hardening time:	: No additional information available

SECTION 11 Toxicological information

11.1. Likely routes of exposure

Acute toxicity (oral)	: Not classified.
Acute toxicity (dermal)	: Not classified.
Acute toxicity (inhalation)	: Not classified.

Resin acids and rosin acids, potassium salts (61790-50-9)	
LD50 dermal rat	> 2000 mg/kg (Source: ECHA_API)
Distillates, petroleum, hydrotreated heavy naphthenic (64742-52-5)	
LD50 oral rat	> 5000 mg/kg (Source: EPA_HP)
LD50 dermal rabbit	> 5000 mg/kg (Source: ECHA_API)
1,4-Benzenediamine, N1-(1,3-dimethylbutyl)-N4-phenyl- (793-24-8)	
LD50 oral rat	3580 mg/kg (Source: NLM_CIP)
LD50 dermal rabbit	> 7940 mg/kg (Source: NLM_CIP)
ATE CA (oral)	3580 mg/kg body weight
N-tert-Butyl-2-benzothiazolesulfenamide (95-31-8)	
LD50 oral rat	6310 mg/kg (Source: ECHA_API)
LD50 dermal rabbit	> 7940 mg/kg (Source: NLM_CIP)
ATE CA (oral)	6310 mg/kg body weight
Thiram (137-26-8)	
LD50 oral rat	1080 mg/kg (Source: EPA_HP)
LD50 dermal rabbit	> 7940 mg/kg (Source: CHEMVIEW)
LC50 Inhalation - Rat	500 mg/m ³ (Exposure time: 4 h Source: NLM_CIP)
ATE CA (oral)	500 mg/kg body weight
4,4'-Dithiodimorpholine (103-34-4)	
LD50 oral rat	4300 mg/kg (Source: NLM_CIP)
LD50 dermal rabbit	> 5010 mg/kg (Source: EPA_HP)
ATE CA (oral)	4300 mg/kg body weight
Rosin (8050-09-7)	
LD50 oral rat	7600 mg/kg (Source: CHEMVIEW)
LD50 dermal rabbit	> 2500 mg/kg (Source: JAPAN_GHS)
LC50 Inhalation - Rat	1.5 mg/l/4h
ATE CA (oral)	7600 mg/kg body weight
ATE CA (vapors)	1.5 mg/l/4h

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Rosin (8050-09-7)	
ATE CA (dust,mist)	1.5 mg/l/4h
Skin corrosion/irritation	: Not classified.
Serious eye damage/irritation	: Not classified.
Respiratory or skin sensitization	: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified.
Carcinogenicity	: May cause cancer.

Thiram (137-26-8)	
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified.
STOT-single exposure	: Not classified.

4,4'-Dithiodimorpholine (103-34-4)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified.

Thiram (137-26-8)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified.

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Viscosity, kinematic	Not applicable
Symptoms/effects after inhalation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Symptoms/effects after skin contact	: May cause an allergic skin reaction.
Symptoms/effects after eye contact	: None under normal conditions. Dust from this product may cause eye irritation.
Symptoms/effects after ingestion	: None under normal conditions.

SECTION 12 Ecological information

12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified.
Hazardous to the aquatic environment, long-term (chronic)	: Not classified.

Distillates, petroleum, hydrotreated heavy naphthenic (64742-52-5)	
LC50 - Fish [1]	> 5000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: IUCLID)
EC50 - Crustacea [1]	> 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)

1,4-Benzenediamine, N1-(1,3-dimethylbutyl)-N4-phenyl- (793-24-8)	
LC50 - Fish [1]	0.4 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: IUCLID)
EC50 - Crustacea [1]	0.51 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 96h - Algae [1]	0.6 mg/l (Species: Pseudokirchneriella subcapitata)

N-tert-Butyl-2-benzothiazolesulfenamide (95-31-8)	
LC50 - Fish [1]	> 0.3 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: IUCLID)
LC50 - Fish [2]	> 0.3 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static] Source: IUCLID)

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N-tert-Butyl-2-benzothiazolesulfenamide (95-31-8)	
EC50 - Crustacea [1]	> 0.3 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 96h - Algae [1]	> 0.3 mg/l (Species: Pseudokirchneriella subcapitata)
Thiram (137-26-8)	
LC50 - Fish [1]	0.0003 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static] Source: EPA)
LC50 - Fish [2]	0.13 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus Source: IUCLID)
EC50 - Crustacea [1]	0.21 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 96h - Algae [1]	< 0.1 mg/l (Species: Desmodesmus subspicatus)
NOEC (acute)	225 mg/kg (Exposure time: 14 Days - Species: Eisenia foetida [soil dry weight])
Rosin (8050-09-7)	
EC50 - Crustacea [1]	3.8 - 5.4 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 72h - Algae [1]	400 mg/l (Species: Desmodesmus subspicatus)

12.2. Persistence and degradability

Group 2- Heat Resistant SAR Cover Stock	
Persistence and degradability	Not rapidly degradable
Resin acids and rosin acids, potassium salts (61790-50-9)	
Persistence and degradability	Not rapidly degradable
Distillates, petroleum, hydrotreated heavy naphthenic (64742-52-5)	
Persistence and degradability	Not rapidly degradable
1,4-Benzenediamine, N1-(1,3-dimethylbutyl)-N4-phenyl- (793-24-8)	
Persistence and degradability	Not rapidly degradable
N-tert-Butyl-2-benzothiazolesulfenamide (95-31-8)	
Persistence and degradability	Not rapidly degradable
Thiram (137-26-8)	
Persistence and degradability	Not rapidly degradable
Coumarone-indene resin (63393-89-5)	
Persistence and degradability	Not rapidly degradable
4,4'-Dithiodimorpholine (103-34-4)	
Persistence and degradability	Not rapidly degradable
Rosin (8050-09-7)	
Persistence and degradability	Not rapidly degradable

12.3. Bioaccumulative potential

Resin acids and rosin acids, potassium salts (61790-50-9)	
Partition coefficient n-octanol/water (Log Pow)	5.046 (at 20 °C (at pH 7))

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1,4-Benzenediamine, N1-(1,3-dimethylbutyl)-N4-phenyl- (793-24-8)	
BCF - Fish [1]	12 - 23 (whole body w.w.)
Partition coefficient n-octanol/water (Log Pow)	5.4
N-tert-Butyl-2-benzothiazolesulfenamide (95-31-8)	
Partition coefficient n-octanol/water (Log Pow)	3.36 (at 25 °C (at pH 6.9))
Thiram (137-26-8)	
BCF - Fish [1]	(91 dimensionless)
Partition coefficient n-octanol/water (Log Pow)	1.9 (at pH 10)
4,4'-Dithiodimorpholine (103-34-4)	
Partition coefficient n-octanol/water (Log Pow)	2.67 (at 22 °C (at pH 7.7))
Rosin (8050-09-7)	
Partition coefficient n-octanol/water (Log Pow)	(>1.9 - <=7.7 (at pH 2))

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Ozone : Not classified.
Fluorinated greenhouse gases : No

SECTION 13 Disposal considerations

Regional waste regulation : Disposal must be done according to official regulations.
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations : Disposal must be done according to official regulations.
Product/Packaging disposal recommendations : Comply with applicable regulations for solid waste disposal. Disposal must be done according to official regulations.
Additional information : Do not re-use empty containers.
Ecological waste information : The waste of the product should be considered as hazardous as the product itself, with the likelihood of impacting the environment in the same way. Consider the handling and disposal of the waste as defined by the product itself.

SECTION 14 Transport information

In accordance with TDG / IMDG / IATA

14.1. UN Number

UN-No. (TDG) : UN3077
UN-No. (IMDG) : 3077
UN-No. (IATA) : 3077

14.2. UN Proper Shipping Name

Proper Shipping Name (TDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 1,4-Benzenediamine, N1-(1,3-dimethylbutyl)-N4-phenyl-, zinc oxide
Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. 1,4-Benzenediamine, N1-(1,3-dimethylbutyl)-N4-phenyl-, zinc oxide

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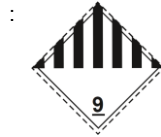
according to SOR/2015-17, Hazardous Products Regulations (HPR), as amended by SOR/2022-272

Proper Shipping Name (IATA) : Environmentally hazardous substance, solid, n.o.s. 1,4-Benzenediamine, N1-(1,3-dimethylbutyl)-N4-phenyl-, zinc oxide

14.3. Transport hazard class(es)

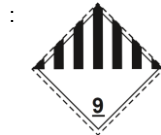
TDG

Transport hazard class(es) (TDG) : 9
Hazard labels (TDG) : 9



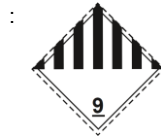
IMDG

Transport hazard class(es) (IMDG) : 9
Hazard labels (IMDG) : 9



IATA

Transport hazard class(es) (IATA) : 9
Hazard labels (IATA) : 9



14.4. Packing group, if applicable

Packing group (TDG) : III
Packing group (IMDG) : III
Packing group (IATA) : III

14.5. Environmental hazards

Dangerous for the environment : No
Other information : No supplementary information available.

14.6. Special precautions for user

TDG

UN-No. (TDG) : UN3077

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according to SOR/2015-17, Hazardous Products Regulations (HPR), as amended by SOR/2022-272

TDG Special Provisions	: 16 - (1) The technical name of at least one of the most dangerous substances that predominantly contributes to the danger or dangers posed by the dangerous goods must be shown, in parentheses, on the shipping document following the shipping name in accordance with clause 3.5(1)(c)(ii)(A). The technical name must also be shown, in parentheses, on a small means of containment or on a tag following the shipping name in accordance with subsections 4.11(2) and (3). (2) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a shipping document or on a small means of containment when Canadian law for domestic transport or an international convention for international transport prohibits the disclosure of the technical name: (a) UN1544, ALKALOID SALTS, SOLID, N.O.S. or ALKALOIDS, SOLID, N.O.S; (b) UN1851, MEDICINE, LIQUID, TOXIC, N.O.S; (c) UN3140, ALKALOID SALTS, LIQUID, N.O.S. or ALKALOIDS, LIQUID, N.O.S; (d) UN3248, MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S; or (e) UN3249, MEDICINE, SOLID, TOXIC, N.O.S. (3) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a small means of containment: (a) UN2814, INFECTIOUS SUBSTANCE, AFFECTING HUMANS; or (b) UN2900, INFECTIOUS SUBSTANCE, AFFECTING ANIMALS, 99 - (1) Mixtures of solids that are not dangerous goods and liquids or solids that are UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S, or UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S, may be offered for transport, handled or transported as UN3077 if there is no visible liquid when the dangerous goods are loaded into a means of containment and during transport. (2) These Regulations, except for Parts 1 and 2, do not apply to the offering for transport, handling or transport of less than 450 kg of UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S, or less than 450 L of UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S, on a road vehicle or a railway vehicle. The dangerous goods must be contained in one or more small means of containment designed, constructed, filled, closed, secured and maintained so that under normal conditions of transport, including handling, there will be no release of the dangerous goods that could endanger public safety.
Explosive Limit and Limited Quantity Index	: 5 kg
Excepted quantities (TDG)	: E1
Emergency Response Guide (ERG) Number	: 171
IMDG	
Special provision (IMDG)	: 274, 335, 375, 966, 967, 969
Limited quantities (IMDG)	: 5 kg
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: LP02, P002
Packing provisions (IMDG)	: PP12
IBC packing instructions (IMDG)	: IBC08
IBC special provisions (IMDG)	: B3
Tank instructions (IMDG)	: BK1, BK2, BK3, T1
Tank special provisions (IMDG)	: TP33
EmS-No. (Fire)	: F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
EmS-No. (Spillage)	: S-F - SPILLAGE SCHEDULE Foxtrot - WATER-SOLUBLE MARINE POLLUTANTS
Stowage category (IMDG)	: A
Stowage and handling (IMDG)	: SW23
IATA	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y956
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 956
PCA max net quantity (IATA)	: 400kg
CAO packing instructions (IATA)	: 956

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CAO max net quantity (IATA) : 400kg
Special provision (IATA) : A97, A158, A179, A197, A215
ERG code (IATA) : 9L

14.7. Transport in bulk according to Annex II of MARPOL 73/78⁹ and the IBC Code¹⁰

Not applicable

SECTION 15 Regulatory information

Styrene-butadiene copolymer (9003-55-8)

Listed on the Canadian DSL (Domestic Substances List)

Resin acids and rosin acids, potassium salts (61790-50-9)

Listed on the Canadian DSL (Domestic Substances List)

Extracts, petroleum, residual oil solvent (64742-10-5)

Listed on the Canadian DSL (Domestic Substances List)

1,3-Butadiene, homopolymer (9003-17-2)

Listed on the Canadian DSL (Domestic Substances List)

Carbon black (1333-86-4)

Listed on the Canadian DSL (Domestic Substances List)

Distillates, petroleum, hydrotreated heavy naphthenic (64742-52-5)

Listed on the Canadian DSL (Domestic Substances List)

1,4-Benzenediamine, N1-(1,3-dimethylbutyl)-N4-phenyl- (793-24-8)

Listed on the Canadian DSL (Domestic Substances List)

Hydrocarbon waxes, petroleum, hydrotreated microcrystalline (64742-60-5)

Listed on the Canadian DSL (Domestic Substances List)

N-tert-Butyl-2-benzothiazolesulfenamide (95-31-8)

Listed on the Canadian DSL (Domestic Substances List)

Zinc oxide (ZnO) (1314-13-2)

Listed on the Canadian DSL (Domestic Substances List)

Thiram (137-26-8)

Listed on the Canadian DSL (Domestic Substances List)

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according to SOR/2015-17, Hazardous Products Regulations (HPR), as amended by SOR/2022-272

Coumarone-indene resin (63393-89-5)

Listed on the Canadian DSL (Domestic Substances List)

4,4'-Dithiodimorpholine (103-34-4)

Listed on the Canadian DSL (Domestic Substances List)

Rosin (8050-09-7)

Listed on the Canadian DSL (Domestic Substances List)

Styrene-butadiene copolymer (9003-55-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on INSQ (Mexican National Inventory of Chemical Substances)

Resin acids and rosin acids, potassium salts (61790-50-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
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Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the Japanese ISHL (Industrial Safety and Health Law)

Extracts, petroleum, residual oil solvent (64742-10-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
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1,3-Butadiene, homopolymer (9003-17-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
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Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on INSQ (Mexican National Inventory of Chemical Substances)

Carbon black (1333-86-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
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Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on INSQ (Mexican National Inventory of Chemical Substances)

Distillates, petroleum, hydrotreated heavy naphthenic (64742-52-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
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Listed on INSQ (Mexican National Inventory of Chemical Substances)

1,4-Benzenediamine, N1-(1,3-dimethylbutyl)-N4-phenyl- (793-24-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
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Japanese Pollutant Release and Transfer Register Law (PRTR Law)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on INSQ (Mexican National Inventory of Chemical Substances)

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Hydrocarbon waxes, petroleum, hydrotreated microcrystalline (64742-60-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on NZIoC (New Zealand Inventory of Chemicals)

N-tert-Butyl-2-benzothiazolesulfenamide (95-31-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
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Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on INSQ (Mexican National Inventory of Chemical Substances)

Zinc oxide (ZnO) (1314-13-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
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Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on INSQ (Mexican National Inventory of Chemical Substances)

Thiram (137-26-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
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Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on INSQ (Mexican National Inventory of Chemical Substances)

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Coumarone-indene resin (63393-89-5)

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Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the Japanese ISHL (Industrial Safety and Health Law)

4,4'-Dithiodimorpholine (103-34-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
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Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on INSQ (Mexican National Inventory of Chemical Substances)

Rosin (8050-09-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
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Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on INSQ (Mexican National Inventory of Chemical Substances)

SECTION 16 Other Information

Issue date : 04-01-2026

Full text of hazard classes and H-statements:

H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H332	Harmful if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation
H350	May cause cancer.

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according to SOR/2015-17, Hazardous Products Regulations (HPR) , as amended by SOR/2022-272

Full text of hazard classes and H-statements:	
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects

Safety Data Sheet (SDS), Canada

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