

## Safety Data Sheet

according to SOR/2015-17, Hazardous Products Regulations (HPR) , as amended by SOR/2022-272  
Issue date: 04-06-2026 Version: 1.0

### SECTION 1 Identification

#### 1.1. GHS Product identifier

Product form : Mixture  
Product name : Group 5- Heat and Oil Resistance Cover Stock  
Product code : 5850

#### 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  
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](mailto: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)

Skin sensitization, Category 1	H317	May cause an allergic skin reaction.
Reproductive toxicity, Category 1B	H360	May damage fertility or the unborn child.
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  
H360 - May damage fertility or the unborn child

Precautionary statements (GHS CA) : P201 - Obtain special instructions before use.  
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 should not be allowed out of the workplace.  
P280 - Wear protective gloves, protective clothing, eye protection, face protection, and hearing protection.

# Group 5- Heat and Oil Resistance Cover Stock

## Safety Data Sheet

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

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P302+P352 - IF ON SKIN: Wash with plenty of water.  
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.  
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

# Group 5- Heat and Oil Resistance Cover Stock

## Safety Data Sheet

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

### 3.2. Mixtures

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 (([H2N]C(S))2S2), N,N,N',N'-tetramethyl- / Tetramethylthioperoxydicarbonic diamide / Thioperoxydicarbonic diamide (([H2N]C(S))2S2), tetramethyl- / N,N,N',N'-Tetramethyl-2,3-dithiadithiosuccinamide / THIRAM	CAS-No.: 137-26-8	0.5 – 1.5	Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319 Skin Sens. 1, H317 STOT RE 2, H373 Comb. Dust

# Group 5- Heat and Oil Resistance Cover Stock

## Safety Data Sheet

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

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-Butylbenzothiazylesulfenamide	CAS-No.: 95-31-8	0.5 – 1.5	Skin Sens. 1, H317 Aquatic Acute 1, H400

# Group 5- Heat and Oil Resistance Cover Stock

## Safety Data Sheet

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

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
Formaldehyde, polymer with N-phenylbenzenamine and 2-propanone	Formaldehyde, oligomeric reaction products with acetone and diphenylamine / 2-Propanone, polymer with formaldehyde and N-phenylbenzenamine / Acetone-diphenylamine-formaldehyde copolymer	CAS-No.: 9003-80-9	0.1 – 1	Skin Sens. 1, H317 STOT RE 2, H373 Aquatic Chronic 4, H413

# Group 5- Heat and Oil Resistance Cover Stock

## Safety Data Sheet

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

Name	Chemical name / Synonyms	Product identifier	wt%	Classification (GHS CA)
N,N'-Diphenyl-p-phenylenediamine	Benzene-1,4-diamine, N,N'-diphenyl- / 1,4-Benzenediamine, N,N'-diphenyl- / 1,4-Bis(phenylamino) benzene / Diphenyl-p-phenylenediamine / p-Phenylaminodiphenylamine / p-Phenylenediamine, N,N'-diphenyl- / N,N'-Diphenyl-1,4-benzenediamine / N,N'-Diphenyl-1,4-phenylenediamine / 1,4-Benzenediamine, N,N-diphenyl- / 1,4-Benzenediamine, N1,N4-diphenyl- / N,N'-Diphenyl-4-phenylenediamine / N, N'-Diphenyl-1,4-benzenediamine / N, N'-Diphenyl-p-phenylenediamine / N,N'-diphenyl-p-phenylenediamine	CAS-No.: 74-31-7	0.1 – 1	Skin Sens. 1, H317

# Group 5- Heat and Oil Resistance Cover Stock

## Safety Data Sheet

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

Name	Chemical name / Synonyms	Product identifier	wt%	Classification (GHS CA)
2H-Benzimidazole-2-thione, 1,3-dihydro-4(or 5)-methyl-, zinc salt (2:1)	Benzimidazole-2-thione, 1,3-dihydro-4(5)-methyl-, zinc salt (2:1) / 1,3-Dihydro-4(or 5)-methyl-2H-benzimidazole-2-thione, zinc salt / 4(5)-Methyl-2-mercaptobenzimidazole, zinc salt / Methyl-2-mercaptobenzimidazole, zinc salt / 1,3-Dihydro-4(or 5)-methyl-2H-benzimidazole-2-thione zinc salt (2:1) / zinc 2-mercaptotoluimidazole / Zinc 2-mercaptotoluimidazole / Zinc methyl mercaptobenzimidazole / Zinc salt of 4(5)-methyl-2-mercaptobenzimidazole	CAS-No.: 61617-00-3	0.1 – 1	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Sens. 1B, H317 Repr. 1B, H360 STOT RE 2, H373 Aquatic Chronic 1, H410

Full text of hazard classes and H-statements : see section 16

## 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.
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.
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	: None under normal conditions. Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure.
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.
Chronic symptoms	: May damage fertility or the unborn child.

# Group 5- Heat and Oil Resistance Cover Stock

## Safety Data Sheet

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

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

Other medical advice or treatment : Treat symptomatically.

## 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 : 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.

## 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. Wear personal protective equipment. 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.

# Group 5- Heat and Oil Resistance Cover Stock

## Safety Data Sheet

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

### SECTION 8 Exposure controls/personal protection

#### 8.1. Control parameters

Thiram (137-26-8)	
<b>Canada (Alberta) - Occupational Exposure Limits</b>	
OEL TWA	1 mg/m <sup>3</sup>
<b>Canada (Quebec) - Occupational Exposure Limits</b>	
VEMP (OEL TWAEV)	5 mg/m <sup>3</sup>
<b>Canada (British Columbia) - Occupational Exposure Limits</b>	
OEL TWA	1 mg/m <sup>3</sup>
<b>Canada (Manitoba) - Occupational Exposure Limits</b>	
OEL TWA	0.05 mg/m <sup>3</sup> (inhalable fraction and vapor)
<b>Canada (New Brunswick) - Occupational Exposure Limits</b>	
OEL TWA	0.05 mg/m <sup>3</sup> (inhalable fraction and vapor)
<b>Canada (Newfoundland and Labrador) - Occupational Exposure Limits</b>	
OEL TWA	0.05 mg/m <sup>3</sup> (inhalable fraction and vapor)
<b>Canada (Nova Scotia) - Occupational Exposure Limits</b>	
OEL TWA	0.05 mg/m <sup>3</sup> (inhalable fraction and vapor)
<b>Canada (Nunavut) - Occupational Exposure Limits</b>	
OEL TWA	1 mg/m <sup>3</sup>
OEL STEL	3 mg/m <sup>3</sup>
<b>Canada (Northwest Territories) - Occupational Exposure Limits</b>	
OEL TWA	1 mg/m <sup>3</sup>
OEL STEL	3 mg/m <sup>3</sup>
<b>Canada (Ontario) - Occupational Exposure Limits</b>	
OEL TWAEV	0.05 mg/m <sup>3</sup> (inhalable fraction and vapor)
<b>Canada (Prince Edward Island) - Occupational Exposure Limits</b>	
OEL TWA	0.05 mg/m <sup>3</sup> (inhalable fraction and vapor)
<b>Canada (Saskatchewan) - Occupational Exposure Limits</b>	
OEL TWA	1 mg/m <sup>3</sup>
OEL STEL	3 mg/m <sup>3</sup>
<b>Canada (Yukon) - Occupational Exposure Limits</b>	
OEL TWA	5 mg/m <sup>3</sup>
OEL STEL	10 mg/m <sup>3</sup>

#### 8.2. Appropriate engineering controls

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

# Group 5- Heat and Oil Resistance Cover Stock

## Safety Data Sheet

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

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

#### Personal protective equipment:

Wear recommended personal protective equipment.

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

#### 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	: 1.18
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

# Group 5- Heat and Oil Resistance Cover Stock

## Safety Data Sheet

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

### 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.
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.

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
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 <sup>3</sup> (Exposure time: 4 h Source: NLM_CIP)
ATE CA (oral)	500 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
Formaldehyde, polymer with N-phenylbenzenamine and 2-propanone (9003-80-9)	
LD50 dermal rat	> 2000 mg/kg (Source: ECHA_API)
LC50 Inhalation - Rat	> 5 mg/l/4h
N,N'-Diphenyl-p-phenylenediamine (74-31-7)	
LD50 oral rat	2370 mg/kg (Source: NLM_CIP)
ATE CA (oral)	2370 mg/kg body weight
2H-Benzimidazole-2-thione, 1,3-dihydro-4(or 5)-methyl-, zinc salt (2:1) (61617-00-3)	
LD50 oral rat	390 mg/kg (Source: NLM_CIP)
LD50 dermal rat	> 2000 mg/kg (Source: ECHA_API)

# Group 5- Heat and Oil Resistance Cover Stock

## Safety Data Sheet

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

<b>2H-Benzimidazole-2-thione, 1,3-dihydro-4(or 5)-methyl-, zinc salt (2:1) (61617-00-3)</b>	
LC50 Inhalation - Rat	> 2.12 mg/l/4h
ATE CA (oral)	390 mg/kg body weight
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 an allergic skin reaction.
Germ cell mutagenicity	: Not classified.
Carcinogenicity	: Not classified.

<b>Thiram (137-26-8)</b>	
IARC group	3 - Not classifiable

Reproductive toxicity	: May damage fertility or the unborn child.
STOT-single exposure	: Not classified.

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

<b>Thiram (137-26-8)</b>	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

<b>Formaldehyde, polymer with N-phenylbenzenamine and 2-propanone (9003-80-9)</b>	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

<b>2H-Benzimidazole-2-thione, 1,3-dihydro-4(or 5)-methyl-, zinc salt (2:1) (61617-00-3)</b>	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard	: Not classified.
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<b>Group 5- Heat and Oil Resistance Cover Stock</b>	
Viscosity, kinematic	Not applicable

Symptoms/effects after inhalation	: None under normal conditions. Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure.
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.
Chronic symptoms	: May damage fertility or the unborn child.

## 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.

<b>Thiram (137-26-8)</b>	
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)

# Group 5- Heat and Oil Resistance Cover Stock

## Safety Data Sheet

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

<b>Thiram (137-26-8)</b>	
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])

<b>N-tert-Butyl-2-benzothiazolesulfenamide (95-31-8)</b>	
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)
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)

<b>2H-Benzimidazole-2-thione, 1,3-dihydro-4(or 5)-methyl-, zinc salt (2:1) (61617-00-3)</b>	
LC50 - Fish [1]	5.6 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static] Source: ECHA)

### 12.2. Persistence and degradability

<b>Group 5- Heat and Oil Resistance Cover Stock</b>	
Persistence and degradability	Not rapidly degradable

<b>4,4'-Dithiodimorpholine (103-34-4)</b>	
Persistence and degradability	Not rapidly degradable

<b>Thiram (137-26-8)</b>	
Persistence and degradability	Not rapidly degradable

<b>N-tert-Butyl-2-benzothiazolesulfenamide (95-31-8)</b>	
Persistence and degradability	Not rapidly degradable

<b>Formaldehyde, polymer with N-phenylbenzenamine and 2-propanone (9003-80-9)</b>	
Persistence and degradability	Not rapidly degradable

<b>N,N'-Diphenyl-p-phenylenediamine (74-31-7)</b>	
Persistence and degradability	Not rapidly degradable

<b>2H-Benzimidazole-2-thione, 1,3-dihydro-4(or 5)-methyl-, zinc salt (2:1) (61617-00-3)</b>	
Persistence and degradability	Not rapidly degradable

### 12.3. Bioaccumulative potential

<b>4,4'-Dithiodimorpholine (103-34-4)</b>	
Partition coefficient n-octanol/water (Log Pow)	2.67 (at 22 °C (at pH 7.7))

<b>Thiram (137-26-8)</b>	
BCF - Fish [1]	(91 dimensionless)
Partition coefficient n-octanol/water (Log Pow)	1.9 (at pH 10)

<b>N-tert-Butyl-2-benzothiazolesulfenamide (95-31-8)</b>	
Partition coefficient n-octanol/water (Log Pow)	3.36 (at 25 °C (at pH 6.9))

# Group 5- Heat and Oil Resistance Cover Stock

## Safety Data Sheet

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

Formaldehyde, polymer with N-phenylbenzenamine and 2-propanone (9003-80-9)	
Partition coefficient n-octanol/water (Log Pow)	> 6.5 (at pH 7)
N,N'-Diphenyl-p-phenylenediamine (74-31-7)	
BCF - Fish [1]	500 - 2150
Partition coefficient n-octanol/water (Log Pow)	3.4 (at 23 °C (at pH 6.4)
2H-Benzimidazole-2-thione, 1,3-dihydro-4(or 5)-methyl-, zinc salt (2:1) (61617-00-3)	
Partition coefficient n-octanol/water (Log Pow)	3.07 (at 20.5 °C (at pH >=6.3-<=6.5)

### 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. zinc oxide, thiram  
Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. zinc oxide, thiram  
Proper Shipping Name (IATA) : Environmentally hazardous substance, solid, n.o.s. zinc oxide, thiram

### 14.3. Transport hazard class(es)

#### TDG

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



# Group 5- Heat and Oil Resistance Cover Stock

## Safety Data Sheet

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

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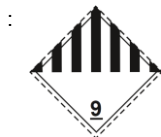
### IMDG

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

# Group 5- Heat and Oil Resistance Cover Stock

## Safety Data Sheet

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
<b>IMDG</b>	
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
<b>IATA</b>	
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

# Group 5- Heat and Oil Resistance Cover Stock

## Safety Data Sheet

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

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 73/78<sup>9</sup> and the IBC Code<sup>10</sup>

Not applicable

## SECTION 15 Regulatory information

### 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)

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

Listed on the Canadian DSL (Domestic Substances List)

### Silica, amorphous, precipitated and gel (112926-00-8)

Listed on the Canadian DSL (Domestic Substances List)

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

Listed on the Canadian DSL (Domestic Substances List)

### Thiram (137-26-8)

Listed on the Canadian DSL (Domestic Substances List)

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

Listed on the Canadian DSL (Domestic Substances List)

### 2-Propenenitrile, polymer with 1,3-butadiene (9003-18-3)

Listed on the Canadian DSL (Domestic Substances List)

### Formaldehyde, polymer with N-phenylbenzenamine and 2-propanone (9003-80-9)

Listed on the Canadian DSL (Domestic Substances List)

### N,N'-Diphenyl-p-phenylenediamine (74-31-7)

Listed on the Canadian DSL (Domestic Substances List)

### 2H-Benzimidazole-2-thione, 1,3-dihydro-4(or 5)-methyl-, zinc salt (2:1) (61617-00-3)

Listed on the Canadian DSL (Domestic Substances List)

# Group 5- Heat and Oil Resistance Cover Stock

## Safety Data Sheet

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

### 5,8,11,13,16,19-Hexaoxatricosane (143-29-3)

Listed on the Canadian DSL (Domestic Substances List)

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

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)

### Carbon black (1333-86-4)

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)  
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 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)  
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)

### Silica, amorphous, precipitated and gel (112926-00-8)

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  
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Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)

# Group 5- Heat and Oil Resistance Cover Stock

## Safety Data Sheet

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

### 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)  
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)

### 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)  
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)  
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)

### 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)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
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Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
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)

### 2-Propenenitrile, polymer with 1,3-butadiene (9003-18-3)

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)  
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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)

# Group 5- Heat and Oil Resistance Cover Stock

## Safety Data Sheet

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

### Formaldehyde, polymer with N-phenylbenzenamine and 2-propanone (9003-80-9)

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 KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

### N,N'-Diphenyl-p-phenylenediamine (74-31-7)

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)  
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)

### 2H-Benzimidazole-2-thione, 1,3-dihydro-4(or 5)-methyl-, zinc salt (2:1) (61617-00-3)

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)

### 5,8,11,13,16,19-Hexaoxatricosane (143-29-3)

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 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)

## SECTION 16 Other Information

Issue date : 04-06-2026

### Full text of hazard classes and H-statements:

H302	Harmful if swallowed
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation

# Group 5- Heat and Oil Resistance Cover Stock

## Safety Data Sheet

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

Full text of hazard classes and H-statements:	
H360	May damage fertility or the unborn child
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
H413	May cause long lasting harmful effects to aquatic life

Safety Data Sheet (SDS), Canada

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