

Safety Data Sheet



Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier

- Product Name** • Black Extruder Rope
Product Code • 18-121; 18-131

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

- Relevant identified use(s)** • Chemical cure spot repairs to tires and other industrial products.

1.3 Details of the supplier of the safety data sheet

- Manufacturer** • Patch Rubber Company
100 Patch Rubber Road
Weldon, NC 27890
United States
- Telephone (General)** • (252)-536-2574
- Responsible party** • Christian Gimenez
Intertek Analytical Services France
France

Telephone (Technical) • 33 (0) 6 07 11 22 15

1.4 Emergency telephone number

- Manufacturer** • 1-800-424-9300 - CHEMTREC
Manufacturer • +1 703-527-3887 - CHEMTREC - Outside USA & CANADA (collect calls accepted)

Section 2: Hazards Identification

EU/EEC

According to EU Directive 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]
According to EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

2.1 Classification of the substance or mixture

- CLP** • Hazardous to the aquatic environment Chronic 2 - H411
DSD/DPD • Dangerous to the Environment (N)
R51, R53

2.2 Label Elements

CLP

WARNING



Hazard statements • H411 - Toxic to aquatic life with long lasting effects

Precautionary statements

Prevention • P273 - Avoid release to the environment.

Response • P391 - Collect spillage.

Storage/Disposal • P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

DSD/DPD



Risk phrases • R51 - Toxic to aquatic organisms.

R53 - May cause long-term adverse effects in the aquatic environment.

Safety phrases • S57 - Use appropriate containment to avoid environmental contamination.

2.3 Other Hazards

CLP

- According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.

DSD/DPD

- According to European Directive 1999/45/EC this preparation is considered dangerous.

United States (US)

According to OSHA 29 CFR 1910.1200 HCS

2.1 Classification of the substance or mixture

OSHA HCS 2012

- Skin Sensitization 1 - H317
- Carcinogenicity 2 - H351

2.2 Label elements

OSHA HCS 2012

WARNING



Hazard statements • May cause an allergic skin reaction - H317
Suspected of causing cancer. - H351

Precautionary statements

Prevention • Obtain special instructions before use. - P201
Do not handle until all safety precautions have been read and understood. - P202
Avoid breathing dust/fume/vapours. - P261
Contaminated work clothing should not be allowed out of the workplace. - P272
Wear protective gloves/protective clothing/eye protection/face protection. - P280

Response • IF exposed or concerned: Get medical advice/attention. - P308+P313
IF ON SKIN: Wash with plenty of soap and water. - P302+P352
If skin irritation or rash occurs: Get medical advice/attention. - P333+P313
Specific treatment, see supplemental first aid information. - P321
Wash contaminated clothing before reuse. - P363

Storage/Disposal • Store locked up. - P405

Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. - P501

2.3 Other hazards

OSHA HCS 2012

- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Canada

According to WHMIS

2.1 Classification of the substance or mixture

WHMIS

- Other Toxic Effects - D2A

2.2 Label elements

WHMIS



- Other Toxic Effects - D2A

2.3 Other hazards

WHMIS

- In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

See Section 12 for Ecological Information.

Section 3 - Composition/Information on Ingredients

3.1 Substances

- Material does not meet the criteria of a substance in accordance with Regulation (EC) No 1272/2008.

3.2 Mixtures

Hazardous Components					
Chemical Name	Identifiers	%(weight)	LD50/LC50	Classifications According to Regulation/Directive	Comments
Carbon Black	CAS:1333-86-4 EC Number:215-609-9	15% TO 40%	Ingestion/Oral-Rat LD50 • >15400 mg/kg Skin-Rabbit LD50 • >3 g/kg	EU DSD/DPD: Not classified - Classification criteria not met EU CLP: Not Classified - Classification criteria not met OSHA HCS 2012: Carc. 2	NDA
Trimethyldihydroquinoline_Antioxidant	CAS:26780-96-1	1% TO 5%	NDA	EU DSD/DPD: Data lacking EU CLP: Data lacking OSHA HCS 2012: Data lacking	NDA
Zinc oxide	CAS:1314-13-2 EC Number:215-222-5	1% TO 5%	NDA	EU DSD/DPD: Annex I - N; R50-53 EU CLP: Annex VI - Aquatic Acute 1, H400; Aquatic Chronic 1, H410 OSHA HCS 2012: Eye Mild Irrit. 2B	NDA

2,2'-Dibenzamido diphenyl disulfite	CAS:135-57-9 EINECS:205-201-9	0.1% TO 1%	Ingestion/Oral-Rat LD50 • >4 g/kg	EU DSD/DPD: Self Classified - Xi; R43 EU CLP: Self Classified - Skin Sens. 1, H317; Aquatic Chronic 3 OSHA HCS 2012: Eye Irrit. 2B; Skin Sens. 1	NDA
Calcium silicate	CAS:1344-95-2 EINECS:215-710-8	0.1% TO 1%	NDA	EU DSD/DPD: Community workplace exposure limit radio button EU CLP: Community workplace exposure limit radio button OSHA HCS 2012: Data lacking	NDA
Kaolin	CAS:1332-58-7	0.1% TO 1%	NDA	EU DSD/DPD: None EU CLP: None OSHA HCS 2012: None	NDA
Propionic acid	CAS:79-09-4 EC Number:201-176-3 UN:UN1848	0.0028% TO 0.0141%	Ingestion/Oral-Rat LD50 • 2600 mg/kg Skin-Rabbit LD50 • 500 µL/kg	EU DSD/DPD: Annex I - C; R34 EU CLP: Annex VI - Skin Corr. 1B, H314 OSHA HCS 2012: Eye Dam. 1; Skin Corr. 1B	NDA
1,3-Butadiene, 2-methyl-, oligomer	CAS:9003-31-0	53.82%	NDA	EU DSD/DPD: None EU CLP: None OSHA HCS 2012: None	NDA
Naphthenic Oil	CAS:64742-52-5 EC Number:265-155-0	8.164%	NDA	EU DSD/DPD: Annex I - Carc. Cat. 2; R45 EU CLP: Annex VI - Carc. 1B, H350 OSHA HCS 2012: Skin Irrit. 2	Contains less than 3% DMSO
Sulfur homopolymer	CAS:9035-99-8	1.7064%	NDA	EU DSD/DPD: Data lacking EU CLP: Data lacking OSHA HCS 2012: Data lacking	NDA
Tall oil pitch	CAS:8016-81-7 EINECS:232-414-4	1.538%	NDA	EU DSD/DPD: Data lacking EU CLP: Data lacking OSHA HCS 2012: Data lacking	NDA
Stearic acid	CAS:57-11-4 EC Number:200-313-4	1.13%	Skin-Rabbit LD50 • >5 g/kg Ingestion/Oral-Rat LD50 • 4600 mg/kg	EU DSD/DPD: Self Classified - Xi R38 EU CLP: Self Classified - Skin Irrit. 2, H315 OSHA HCS 2012: Skin Irrit. 2	NDA
Fuels, diesel, No. 2	CAS:68476-34-6 EC Number:270-676-1	0.4756%	NDA	EU DSD/DPD: Annex I - Carc. 3; R40 EU CLP: Annex VI - Carc. 2; H351 OSHA HCS 2012: Flam. Liq. 4; Carc. 2	NDA
Rosin oil	CAS:68425-08-1 EINECS:270-333-6	0.216%	NDA	EU DSD/DPD: Data lacking EU CLP: Data lacking OSHA HCS 2012: Data lacking	NDA
Sulfur	CAS:7704-34-9 EC Number:231-	0.1896%	NDA	EU DSD/DPD: Annex I - Xi; R38 EU CLP: Annex VI - Skin Irrit. 2, H315	NDA

	722-6 UN:UN1350			OSHA HCS 2012: Flam. Solid 1; Skin Irrit 2; Eye Irrit 2, STOT SE 3: Resp. Irrit.	
Tall oil	CAS:8002-26-4 EINECS:232-304-6	0.1312%	NDA	EU DSD/DPD: Data lacking EU CLP: Data lacking OSHA HCS 2012: Data lacking	NDA

Key to abbreviations

* = The CB4REACH Consortium has concluded that carbon black is classified as non-hazardous for all end-points. This classification is currently under review by ECHA.

See Section 11 for Toxicological Information. See Section 16 for full text of H-statements and R-phrases.

Section 4 - First Aid Measures

4.1 Description of first aid measures

- | | |
|-------------------|---|
| Inhalation | <ul style="list-style-type: none"> Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. |
| Skin | <ul style="list-style-type: none"> In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Get medical attention if symptoms occur. |
| Eye | <ul style="list-style-type: none"> In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. |
| Ingestion | <ul style="list-style-type: none"> First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. If signs/symptoms develop, get medical attention. |

4.2 Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

4.3 Indication of any immediate medical attention and special treatment needed

- | | |
|---------------------------|--|
| Notes to Physician | <ul style="list-style-type: none"> All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. |
|---------------------------|--|

Section 5 - Firefighting Measures

5.1 Extinguishing media

- | | |
|---------------------------------------|---|
| Suitable Extinguishing Media | <ul style="list-style-type: none"> LARGE FIRE: Water spray, fog or regular foam. SMALL FIRES: Dry chemical, CO2, water spray or regular foam. |
| Unsuitable Extinguishing Media | <ul style="list-style-type: none"> No data available. |

5.2 Special hazards arising from the substance or mixture

- | | |
|---|---|
| Unusual Fire and Explosion Hazards | <ul style="list-style-type: none"> Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes. |
| Hazardous Combustion Products | <ul style="list-style-type: none"> No data available. |

5.3 Advice for firefighters

- Structural firefighters' protective clothing will only provide limited protection. Wear positive pressure self-contained breathing apparatus (SCBA). Runoff from fire control may cause pollution. LARGE FIRES: Dike fire-control water for later disposal.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions

- Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid any skin contact.

Emergency Procedures

- No emergency procedures are expected to be necessary if material is used under ordinary conditions as recommended.

6.2 Environmental precautions

- Avoid run off to waterways and sewers.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures

- Pick up pieces and place in container or bag for disposal.
For spills of molten product - allow product to cool/solidify and pick or scrape up as a solid.

6.4 Reference to other sections

- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Handling

- Wear appropriate personal protective equipment. Use only with adequate ventilation. Avoid breathing processing vapors. Avoid contact with skin and eyes. Use good safety and industrial hygiene practices.

7.2 Conditions for safe storage, including any incompatibilities

Storage

- Ventilate enclosed areas.

7.3 Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

Section 8 - Exposure Controls/Personal Protection

8.1 Control parameters

Exposure Limits/Guidelines						
	Result	ACGIH	Canada Ontario	Canada Quebec	China	France
Propionic acid (79-09-4)	STELs	Not established	Not established	Not established	60 mg/m ³ STEL	20 ppm STEL [VLCT] (indicative limit); 62 mg/m ³ STEL [VLCT] (indicative limit)
	TWAs	10 ppm TWA	10 ppm TWA	10 ppm TWAEV; 30 mg/m ³ TWAEV	30 mg/m ³ TWA	10 ppm TWA [VME] (indicative limit); 31 mg/m ³ TWA [VME] (indicative limit)
Calcium silicate (1344-95-2)	TWAs	10 mg/m ³ TWA (synthetic nonfibrous, particulate matter containing no asbestos and <1% crystalline silica)	10 mg/m ³ TWA (synthetic nonfibrous, containing no Asbestos and <1% Crystalline silica)	10 mg/m ³ TWAEV (synthetic, containing no Asbestos and <1% Crystalline silica, total dust)	Not established	Not established

Kaolin (1332-58-7)	TWAs	2 mg/m3 TWA (particulate matter containing no asbestos and <1% crystalline silica, respirable fraction)	2 mg/m3 TWA (containing no Asbestos and <1% Crystalline silica, respirable)	5 mg/m3 TWAEV (containing no Asbestos and <1% Crystalline silica, respirable dust)	Not established	10 mg/m3 TWA [VME]
Fuels, diesel, No. 2 (68476-34-6)	TWAs	100 mg/m3 TWA (inhalable fraction and vapor, as total hydrocarbons, listed under Diesel fuel)	100 mg/m3 TWA (total hydrocarbons, listed under Diesel fuel)	Not established	Not established	Not established
Zinc oxide (1314-13-2)	STELs	10 mg/m3 STEL (respirable fraction)	10 mg/m3 STEL (respirable)	10 mg/m3 STEV (fume)	5 mg/m3 STEL	Not established
	TWAs	2 mg/m3 TWA (respirable fraction)	2 mg/m3 TWA (respirable)	10 mg/m3 TWAEV (containing no Asbestos and <1% Crystalline silica, total dust); 5 mg/m3 TWAEV (fume)	3 mg/m3 TWA	5 mg/m3 TWA [VME] (fume); 10 mg/m3 TWA [VME] (dust)
Carbon Black (1333-86-4)	STELs	Not established	Not established	Not established	8 mg/m3 STEL (total dust)	Not established
	TWAs	3 mg/m3 TWA (inhalable fraction)	3.5 mg/m3 TWA	3.5 mg/m3 TWAEV	4 mg/m3 TWA (total dust)	3.5 mg/m3 TWA [VME]

Exposure Limits/Guidelines (Con't.)

	Result	Germany DFG	Germany TRGS	Italy	NIOSH	OSHA
Propionic acid (79-09-4)	STELs	Not established	Not established	20 ppm STEL; 62 mg/m3 STEL	15 ppm STEL; 45 mg/m3 STEL	Not established
	TWAs	Not established	10 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2); 31 mg/m3 TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2)	10 ppm TWA; 31 mg/m3 TWA	10 ppm TWA; 30 mg/m3 TWA	Not established
	Ceilings	20 ppm Peak; 62 mg/m3 Peak	Not established	Not established	Not established	Not established
	MAKs	10 ppm TWA MAK; 31 mg/m3 TWA MAK	Not established	Not established	Not established	Not established
Calcium silicate (1344-95-2)	TWAs	Not established	Not established	Not established	10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)
Kaolin (1332-58-7)	TWAs	Not established	Not established	Not established	10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)
						5 mg/m3 TWA

Zinc oxide (1314-13-2)	TWAs	Not established	Not established	Not established	5 mg/m ³ TWA (dust and fume)	(fume); 15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction)
	Ceilings	1 mg/m ³ Peak (respirable fraction, fume)	Not established	Not established	15 mg/m ³ Ceiling (dust)	Not established
	STELs	Not established	Not established	Not established	10 mg/m ³ STEL (fume)	Not established
	MAKs	1 mg/m ³ TWA MAK (fume, respirable fraction)	Not established	Not established	Not established	Not established
Carbon Black (1333-86-4)	TWAs	Not established	Not established	Not established	3.5 mg/m ³ TWA; 0.1 mg/m ³ TWA (Carbon black in presence of Polycyclic aromatic hydrocarbons, as PAH)	3.5 mg/m ³ TWA

Exposure Control Notations

Italy

- Fuels, diesel, No. 2 (68476-34-6): **Carcinogens:** (Category 3 Carcinogen)
- Naphthenic Oil (64742-52-5): **Carcinogens:** (Category 2 Carcinogen)

Germany DFG

- Tall oil (8002-26-4): **Carcinogens:** (Category 3A (could be carcinogenic for man)) | **Sensitizers:** (skin sensitizer (applies only for Tall oil distillates containing Abietic acid))
- Kaolin (1332-58-7): **Carcinogens:** (Category 3B (could be carcinogenic for man))
- Propionic acid (79-09-4): **Pregnancy:** (no risk to embryo/fetus if exposure limits adhered to)
- Carbon Black (1333-86-4): **Carcinogens:** (Category 3B (could be carcinogenic for man, inhalable fraction))

8.2 Exposure controls

Engineering

Measures/Controls

Personal Protective Equipment

Respiratory

Eye/Face

Skin/Body

General Industrial Hygiene Considerations

Environmental Exposure Controls

- Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.
- In case of insufficient ventilation, wear suitable respiratory equipment.
- Wear protective eyewear (goggles, face shield, or safety glasses).
- Wear appropriate gloves.
- Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Do not get in eyes or on skin or clothing.
- Follow best practice for site management and disposal of waste. Avoid release to the environment.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

NIOSH = National Institute of Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

MAK = Maximale Arbeitsplatz Konzentration is the maximum permissible concentration

STEL = Short Term Exposure Limits are based on 15-minute exposures

TWAEV = Time-Weighted Average Exposure Value

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

Section 9 - Physical and Chemical Properties

9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Solid	Appearance/Description	Black solid rubber with characteristic rubber odor.
Color	Black	Odor	Rubber
Odor Threshold	Data lacking		
General Properties			
Boiling Point	Data lacking	Melting Point	Data lacking
Decomposition Temperature	Data lacking	pH	Data lacking
Specific Gravity/Relative Density	1.08 to 1.14 Water=1	Water Solubility	Data lacking
Viscosity	Data lacking	Explosive Properties	Data lacking
Oxidizing Properties:	Data lacking		
Volatility			
Vapor Pressure	Data lacking	Vapor Density	Data lacking
Evaporation Rate	Data lacking		
Flammability			
Flash Point	Data lacking	UEL	Data lacking
LEL	Data lacking	Autoignition	Data lacking
Flammability (solid, gas)	Data lacking		
Environmental			
Octanol/Water Partition coefficient	Data lacking		

9.2 Other Information

- No additional physical and chemical parameters noted.

Section 10: Stability and Reactivity

10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

- Stable

10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur.

10.4 Conditions to avoid

- No data available.

10.5 Incompatible materials

- None known.

10.6 Hazardous decomposition products

- Carbon Monoxide, Carbon Dioxide, Smoke, Aliphatics, Aromatics, Sulfur Oxides.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

Component Name	CAS	Data
Carbon Black (15% TO 40%)	1333-86-4	Acute Toxicity: orl-rat LD50:>15400 mg/kg; Tumorigen/Carcinogen: ihl-rat TCLo:11600 ug/m3/18H/2Y-I
Trimethyldihydroquinoline_Antioxidant (1% TO 5%)	26780-96-1	Reproductive: orl-rat TDLo:3400 mg/kg (6-15D preg)
Zinc oxide (1% TO 5%)	1314-13-2	Irritation: eye-rbt 500 mg/24H MLD; skn-rbt 500 mg/24H MLD; Reproductive: orl-rat TDLo:6846 mg/kg (1-22D preg)
2,2'-Dibenzamido diphenyl disulfite (0.1% TO 1%)	135-57-9	Acute Toxicity: orl-rat LD50:>4 gm/kg; Irritation: eye-rbt 500 mg/24H MLD
Kaolin (0.1% TO 1%)	1332-58-7	Acute Toxicity: ihl-rat TCLo:30 mg/m3/96W-I; Reproductive: orl-rat TDLo:370 gm/kg (37D pre/1-22D preg)
Propionic acid (0.0028% TO 0.0141%)	79-09-4	Acute Toxicity: orl-rat LD50:2600 mg/kg; skn-rbt LD50:500 uL/kg; Irritation: eye-rbt 990 ug SEV; skn-rbt 495 mg open SEV
Naphthenic Oil (8.164%)	64742-52-5	Irritation: skn-rbt 500 mg SEV
Stearic acid (1.13%)	57-11-4	Acute Toxicity: orl-rat LD50:4600 mg/kg; skn-rbt LD50:>5 gm/kg; Irritation: skn-rbt 500 mg/24H MOD
Sulfur (0.1896%)	7704-34-9	Irritation: eye-hmn 8 ppm

GHS Properties	Classification
Acute toxicity	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Aspiration Hazard	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Carcinogenicity	EU/CLP • Classification criteria not met OSHA HCS 2012 • Carcinogenicity 2
Germ Cell Mutagenicity	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Skin corrosion/Irritation	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Skin sensitization	EU/CLP • Classification criteria not met OSHA HCS 2012 • Skin Sensitizer 1
STOT-RE	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
STOT-SE	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Toxicity for Reproduction	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Respiratory sensitization	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met
Serious eye damage/Irritation	EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met

Route(s) of entry/exposure • Inhalation, Skin, Eye

Potential Health Effects

Inhalation

Acute (Immediate)

- No adverse effects likely for general handling at room temperature. Hot processing (e.g. milling, extrusion, curing, etc.) can release fumes and other volatiles which may cause irritation.

Chronic (Delayed)

- Long term exposure to concentrated hot processing fumes has caused lung function loss and chronic bronchitis.

Skin

- Acute (Immediate)**
 - May cause skin sensitization. Symptoms include redness, and skin rash.
- Chronic (Delayed)**
 - No data available.

Eye

- Acute (Immediate)**
 - No adverse effects likely for general handling at room temperature. Hot processing (e.g. milling, extrusion, curing, etc.) can release fumes and other volatiles which may cause irritation.
- Chronic (Delayed)**
 - No data available.

Ingestion

- Acute (Immediate)**
 - Under normal conditions of use, no health effects are expected.
- Chronic (Delayed)**
 - No data available.

Carcinogenic Effects

- The CB4REACH Consortium has concluded that carbon black is classified as not carcinogenic. This classification is currently under review. This product contains carbon black (encapsulated)(1333-86-4). According to IARC "No significant exposure to carbon black is thought to occur during the use of products in which carbon black is bound to other materials, such as rubber, printing ink or paint."

Carcinogenic Effects		
	CAS	IARC
Carbon Black	1333-86-4	Group 2B-Possible Carcinogen

Key to abbreviations

LD = Lethal Dose	SEV = Severe
MLD = Mild	TC = Toxic Concentration
MOD = Moderate	TD = Toxic Dose

Section 12 - Ecological Information**12.1 Toxicity**

- Material data lacking.

12.2 Persistence and degradability

- Material data lacking.

12.3 Bioaccumulative potential

- Material data lacking.

12.4 Mobility in Soil

- Material data lacking.

12.5 Results of PBT and vPvB assessment

- No PBT and vPvB assessment has been conducted.

12.6 Other adverse effects

- No studies have been found.

Section 13 - Disposal Considerations**13.1 Waste treatment methods**

Product waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	NDA	Not Regulated	NDA	NDA	NDA
TDG	NDA	Not Regulated	NDA	NDA	NDA
IMO/IMDG	NDA	Not Regulated	NDA	NDA	NDA
IATA/ICAO	NDA	Not Regulated	NDA	NDA	NDA

14.6 Special precautions for user

- None known.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

- Not relevant.

Section 15 - Regulatory Information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****SARA Hazard Classifications** • Acute

State Right To Know				
Component	CAS	MA	NJ	PA
Carbon Black	1333-86-4	Yes	Yes	Yes
Trimethyldihydroquinoline_Antioxidant	26780-96-1	No	No	No
Zinc oxide	1314-13-2	Yes	Yes Yes	Yes Yes
2,2'-Dibenzamido diphenyl disulfite	135-57-9	No	No	No
Calcium silicate	1344-95-2	Yes	Yes	Yes
Kaolin	1332-58-7	Yes	Yes	Yes
Propionic acid	79-09-4	Yes	Yes	Yes
1,3-Butadiene, 2-methyl-, oligomer	9003-31-0	No	No	No
Naphthenic Oil	64742-52-5	No	No	No
Sulfur homopolymer	9035-99-8	No	No	No
Tall oil pitch	8016-81-7	No	No	No
Stearic acid	57-11-4	No	No	No

Fuels, diesel, No. 2	68476-34-6	No	Yes	No
Rosin oil	68425-08-1	No	No	No
Sulfur	7704-34-9	Yes	Yes	Yes
Tall oil	8002-26-4	No	No	No

Inventory						
Component	CAS	Canada DSL	Canada NDSL	China	EU EINECS	EU ELNICS
Carbon Black	1333-86-4	Yes	No	Yes	Yes	Yes
Trimethyldihydroquinoline_Antioxidant	26780-96-1	Yes	No	Yes	No	No
Zinc oxide	1314-13-2	Yes	No	Yes	Yes	No
2,2'-Dibenzamido diphenyl disulfite	135-57-9	Yes	No	Yes	Yes	No
Calcium silicate	1344-95-2	Yes	No	Yes	Yes	No
Kaolin	1332-58-7	Yes	No	Yes	Yes	No
Propionic acid	79-09-4	Yes	No	Yes	Yes	No
1,3-Butadiene, 2-methyl-, oligomer	9003-31-0	Yes	No	Yes	No	No
Naphthenic Oil	64742-52-5	Yes	No	Yes	Yes	No
Sulfur homopolymer	9035-99-8	Yes	No	Yes	No	No
Tall oil pitch	8016-81-7	Yes	No	Yes	Yes	No
Stearic acid	57-11-4	Yes	No	Yes	Yes	No
Fuels, diesel, No. 2	68476-34-6	Yes	No	Yes	Yes	No
Rosin oil	68425-08-1	Yes	No	No	Yes	No
Sulfur	7704-34-9	Yes	No	Yes	Yes	No
Tall oil	8002-26-4	Yes	No	Yes	Yes	No

Inventory (Con't.)				
Component	CAS	Japan ENCS	Korea KECL	TSCA
Carbon Black	1333-86-4	Yes	Yes	Yes
Trimethyldihydroquinoline_Antioxidant	26780-96-1	Yes	Yes	Yes
Zinc oxide	1314-13-2	Yes	Yes	Yes
2,2'-Dibenzamido diphenyl disulfite	135-57-9	Yes	Yes	Yes
Calcium silicate	1344-95-2	Yes	Yes	Yes
Kaolin	1332-58-7	Yes	Yes	Yes
Propionic acid	79-09-4	Yes	Yes	Yes
1,3-Butadiene, 2-methyl-, oligomer	9003-31-0	Yes	Yes	Yes
Naphthenic Oil	64742-52-5	Yes	Yes	Yes
Sulfur homopolymer	9035-99-8	No	Yes	Yes
Tall oil pitch	8016-81-7	Yes	Yes	Yes

Stearic acid	57-11-4	Yes	Yes	Yes
Fuels, diesel, No. 2	68476-34-6	Yes	Yes	Yes
Rosin oil	68425-08-1	No	Yes	Yes
Sulfur	7704-34-9	No	Yes	Yes
Tall oil	8002-26-4	Yes	Yes	Yes

Canada

Labor

Canada - WHMIS - Classifications of Substances

• Fuels, diesel, No. 2	68476-34-6	0.4756%	Not Listed
• Calcium silicate	1344-95-2	0.1% TO 1%	Uncontrolled product according to WHMIS classification criteria
• Stearic acid	57-11-4	1.13%	Uncontrolled product according to WHMIS classification criteria
• Tall oil	8002-26-4	0.1312%	Uncontrolled product according to WHMIS classification criteria
• Tall oil pitch	8016-81-7	1.538%	Not Listed
• Trimethyldihydroquinoline_Antioxidant	26780-96-1	1% TO 5%	Not Listed
• 1,3-Butadiene, 2-methyl-, oligomer	9003-31-0	53.82%	Not Listed
• Kaolin	1332-58-7	0.1% TO 1%	D2A
• Propionic acid	79-09-4	0.0028% TO 0.0141%	B3, D1B, E
• Naphthenic Oil	64742-52-5	8.164%	Not Listed
• Carbon Black	1333-86-4	15% TO 40%	D2A (In certain cases, this classification does not apply. For more information, consult the section Substance Specific Issues - Carbon Black, non-respirable on Health Canada's WHMIS Division website.)
• Zinc oxide	1314-13-2	1% TO 5%	Uncontrolled product according to WHMIS classification criteria
• Zinc oxide as Zinc compounds		1% TO 5%	Not Listed
• Sulfur	7704-34-9	0.1896%	B4
• Rosin oil	68425-08-1	0.216%	Not Listed
• 2,2'-Dibenzamido diphenyl disulfite	135-57-9	0.1% TO 1%	Not Listed
• Sulfur homopolymer	9035-99-8	1.7064%	Not Listed

Canada - WHMIS - Ingredient Disclosure List

• Fuels, diesel, No. 2	68476-34-6	0.4756%	Not Listed
• Calcium silicate	1344-95-2	0.1% TO 1%	Not Listed
• Stearic acid	57-11-4	1.13%	1 %
• Tall oil	8002-26-4	0.1312%	Not Listed
• Tall oil pitch	8016-81-7	1.538%	Not Listed
• Trimethyldihydroquinoline_Antioxidant	26780-96-1	1% TO 5%	Not Listed
• 1,3-Butadiene, 2-methyl-, oligomer	9003-31-0	53.82%	Not Listed
• Kaolin	1332-58-7	0.1% TO 1%	Not Listed
• Propionic acid	79-09-4	0.0028% TO 0.0141%	1 %
• Naphthenic Oil	64742-52-5	8.164%	Not Listed
• Carbon Black	1333-86-4	15% TO 40%	1 %
• Zinc oxide	1314-13-2	1% TO 5%	1 %
• Zinc oxide as Zinc compounds		1% TO 5%	Not Listed
• Sulfur	7704-34-9	0.1896%	Not Listed
• Rosin oil	68425-08-1	0.216%	Not Listed
• 2,2'-Dibenzamido diphenyl disulfite	135-57-9	0.1% TO 1%	Not Listed

• Sulfur homopolymer	9035-99-8	1.7064%	Not Listed
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Environment**Canada - CEPA - Priority Substances List**

• Fuels, diesel, No. 2	68476-34-6	0.4756%	Not Listed
• Calcium silicate	1344-95-2	0.1% TO 1%	Not Listed
• Stearic acid	57-11-4	1.13%	Not Listed
• Tall oil	8002-26-4	0.1312%	Not Listed
• Tall oil pitch	8016-81-7	1.538%	Not Listed
• Trimethyldihydroquinoline_Antioxidant	26780-96-1	1% TO 5%	Not Listed
• 1,3-Butadiene, 2-methyl-, oligomer	9003-31-0	53.82%	Not Listed
• Kaolin	1332-58-7	0.1% TO 1%	Not Listed
• Propionic acid	79-09-4	0.0028% TO 0.0141%	Not Listed
• Naphthenic Oil	64742-52-5	8.164%	Not Listed
• Carbon Black	1333-86-4	15% TO 40%	Not Listed
• Zinc oxide	1314-13-2	1% TO 5%	Not Listed
• Zinc oxide as Zinc compounds		1% TO 5%	Not Listed
• Sulfur	7704-34-9	0.1896%	Not Listed
• Rosin oil	68425-08-1	0.216%	Not Listed
• 2,2'-Dibenzamido diphenyl disulfite	135-57-9	0.1% TO 1%	Not Listed
• Sulfur homopolymer	9035-99-8	1.7064%	Not Listed

Europe**Other****EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification**

• Fuels, diesel, No. 2	68476-34-6	0.4756%	Carc.Cat.3; R40
• Calcium silicate	1344-95-2	0.1% TO 1%	Not Listed
• Stearic acid	57-11-4	1.13%	Not Listed
• Tall oil	8002-26-4	0.1312%	Not Listed
• Tall oil pitch	8016-81-7	1.538%	Not Listed
• Trimethyldihydroquinoline_Antioxidant	26780-96-1	1% TO 5%	Not Listed
• 1,3-Butadiene, 2-methyl-, oligomer	9003-31-0	53.82%	Not Listed
• Kaolin	1332-58-7	0.1% TO 1%	Not Listed
• Propionic acid	79-09-4	0.0028% TO 0.0141%	C; R34
• Naphthenic Oil	64742-52-5	8.164%	Carc.Cat.2; R45
• Carbon Black	1333-86-4	15% TO 40%	Not Listed
• Zinc oxide	1314-13-2	1% TO 5%	N; R50-53
• Zinc oxide as Zinc compounds		1% TO 5%	Not Listed
• Sulfur	7704-34-9	0.1896%	Xi; R38
• Rosin oil	68425-08-1	0.216%	Not Listed
• 2,2'-Dibenzamido diphenyl disulfite	135-57-9	0.1% TO 1%	Not Listed
• Sulfur homopolymer	9035-99-8	1.7064%	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits

• Fuels, diesel, No. 2	68476-34-6	0.4756%	Not Listed
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• Calcium silicate	1344-95-2	0.1% TO 1%	Not Listed
• Stearic acid	57-11-4	1.13%	Not Listed
• Tall oil	8002-26-4	0.1312%	Not Listed
• Tall oil pitch	8016-81-7	1.538%	Not Listed
• Trimethyldihydroquinoline_Antioxidant	26780-96-1	1% TO 5%	Not Listed
• 1,3-Butadiene, 2-methyl-, oligomer	9003-31-0	53.82%	Not Listed
• Kaolin	1332-58-7	0.1% TO 1%	Not Listed
• Propionic acid	79-09-4	0.0028% TO 0.0141%	10%<=C<25%: Xi; R:36/37/38 25%<=C: C; R:34
• Naphthenic Oil	64742-52-5	8.164%	Not Listed
• Carbon Black	1333-86-4	15% TO 40%	Not Listed
• Zinc oxide	1314-13-2	1% TO 5%	Not Listed
• Zinc oxide as Zinc compounds		1% TO 5%	Not Listed
• Sulfur	7704-34-9	0.1896%	Not Listed
• Rosin oil	68425-08-1	0.216%	Not Listed
• 2,2'-Dibenzamido diphenyl disulfite	135-57-9	0.1% TO 1%	Not Listed
• Sulfur homopolymer	9035-99-8	1.7064%	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling

• Fuels, diesel, No. 2	68476-34-6	0.4756%	Xn R:40 S:(2)-36/37
• Calcium silicate	1344-95-2	0.1% TO 1%	Not Listed
• Stearic acid	57-11-4	1.13%	Not Listed
• Tall oil	8002-26-4	0.1312%	Not Listed
• Tall oil pitch	8016-81-7	1.538%	Not Listed
• Trimethyldihydroquinoline_Antioxidant	26780-96-1	1% TO 5%	Not Listed
• 1,3-Butadiene, 2-methyl-, oligomer	9003-31-0	53.82%	Not Listed
• Kaolin	1332-58-7	0.1% TO 1%	Not Listed
• Propionic acid	79-09-4	0.0028% TO 0.0141%	C R:34 S:(1/2)-23-36-45
• Naphthenic Oil	64742-52-5	8.164%	T R:45 S:63-45
• Carbon Black	1333-86-4	15% TO 40%	Not Listed
• Zinc oxide	1314-13-2	1% TO 5%	N R:50/53 S:60-61
• Zinc oxide as Zinc compounds		1% TO 5%	Not Listed
• Sulfur	7704-34-9	0.1896%	Xi R:38 S:(2)-46
• Rosin oil	68425-08-1	0.216%	Not Listed
• 2,2'-Dibenzamido diphenyl disulfite	135-57-9	0.1% TO 1%	Not Listed
• Sulfur homopolymer	9035-99-8	1.7064%	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations

• Fuels, diesel, No. 2	68476-34-6	0.4756%	Not Listed
• Calcium silicate	1344-95-2	0.1% TO 1%	Not Listed
• Stearic acid	57-11-4	1.13%	Not Listed
• Tall oil	8002-26-4	0.1312%	Not Listed
• Tall oil pitch	8016-81-7	1.538%	Not Listed
• Trimethyldihydroquinoline_Antioxidant	26780-96-1	1% TO 5%	Not Listed
• 1,3-Butadiene, 2-methyl-, oligomer	9003-31-0	53.82%	Not Listed
• Kaolin	1332-58-7	0.1% TO 1%	Not Listed
• Propionic acid	79-09-4	0.0028% TO 0.0141%	B
• Naphthenic Oil	64742-52-5	8.164%	L
• Carbon Black	1333-86-4	15% TO 40%	Not Listed
• Zinc oxide	1314-13-2	1% TO 5%	Not Listed

• Zinc oxide as Zinc compounds		1% TO 5%	Not Listed
• Sulfur	7704-34-9	0.1896%	Not Listed
• Rosin oil	68425-08-1	0.216%	Not Listed
• 2,2'-Dibenzamido diphenyl disulfite	135-57-9	0.1% TO 1%	Not Listed
• Sulfur homopolymer	9035-99-8	1.7064%	Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases

• Fuels, diesel, No. 2	68476-34-6	0.4756%	S:(2)-36/37
• Calcium silicate	1344-95-2	0.1% TO 1%	Not Listed
• Stearic acid	57-11-4	1.13%	Not Listed
• Tall oil	8002-26-4	0.1312%	Not Listed
• Tall oil pitch	8016-81-7	1.538%	Not Listed
• Trimethyldihydroquinoline_Antioxidant	26780-96-1	1% TO 5%	Not Listed
• 1,3-Butadiene, 2-methyl-, oligomer	9003-31-0	53.82%	Not Listed
• Kaolin	1332-58-7	0.1% TO 1%	Not Listed
• Propionic acid	79-09-4	0.0028% TO 0.0141%	S:(1/2)-23-36-45
• Naphthenic Oil	64742-52-5	8.164%	S:53-45
• Carbon Black	1333-86-4	15% TO 40%	Not Listed
• Zinc oxide	1314-13-2	1% TO 5%	S:60-61
• Zinc oxide as Zinc compounds		1% TO 5%	Not Listed
• Sulfur	7704-34-9	0.1896%	S:(2)-46
• Rosin oil	68425-08-1	0.216%	Not Listed
• 2,2'-Dibenzamido diphenyl disulfite	135-57-9	0.1% TO 1%	Not Listed
• Sulfur homopolymer	9035-99-8	1.7064%	Not Listed

Mexico**Other****Mexico - Hazard Classifications**

• Fuels, diesel, No. 2	68476-34-6	0.4756%	Not Listed
• Calcium silicate	1344-95-2	0.1% TO 1%	Not Listed
• Stearic acid	57-11-4	1.13%	Not Listed
• Tall oil	8002-26-4	0.1312%	Not Listed
• Tall oil pitch	8016-81-7	1.538%	Not Listed
• Trimethyldihydroquinoline_Antioxidant	26780-96-1	1% TO 5%	Not Listed
• 1,3-Butadiene, 2-methyl-, oligomer	9003-31-0	53.82%	Not Listed
• Kaolin	1332-58-7	0.1% TO 1%	Not Listed
• Propionic acid	79-09-4	0.0028% TO 0.0141%	Hazard Class = 8 PG = III UN1848; Hazard Class = 8 (3) PG = II (with >=90% acid by mass) UN3463
• Naphthenic Oil	64742-52-5	8.164%	Not Listed
• Carbon Black	1333-86-4	15% TO 40%	Not Listed
• Zinc oxide	1314-13-2	1% TO 5%	Not Listed
• Zinc oxide as Zinc compounds		1% TO 5%	Not Listed
• Sulfur	7704-34-9	0.1896%	Hazard Class = 4.1 PG = III UN1350; Hazard Class = 4.1 PG = III UN2448
• Rosin oil	68425-08-1	0.216%	Not Listed
• 2,2'-Dibenzamido diphenyl disulfite	135-57-9	0.1% TO 1%	Not Listed
• Sulfur homopolymer	9035-99-8	1.7064%	Not Listed

Mexico - Regulated Substances

• Fuels, diesel, No. 2	68476-34-6	0.4756%	Not Listed
• Calcium silicate	1344-95-2	0.1% TO 1%	Not Listed
• Stearic acid	57-11-4	1.13%	Not Listed
• Tall oil	8002-26-4	0.1312%	Not Listed
• Tall oil pitch	8016-81-7	1.538%	Not Listed
• Trimethyldihydroquinoline_Antioxidant	26780-96-1	1% TO 5%	Not Listed
• 1,3-Butadiene, 2-methyl-, oligomer	9003-31-0	53.82%	Not Listed
• Kaolin	1332-58-7	0.1% TO 1%	Not Listed
• Propionic acid	79-09-4	0.0028% TO 0.0141%	UN1848; UN3463 (with >=90% acid by mass)
• Naphthenic Oil	64742-52-5	8.164%	Not Listed
• Carbon Black	1333-86-4	15% TO 40%	Not Listed
• Zinc oxide	1314-13-2	1% TO 5%	Not Listed
• Zinc oxide as Zinc compounds		1% TO 5%	Not Listed
• Sulfur	7704-34-9	0.1896%	UN1350; UN2448
• Rosin oil	68425-08-1	0.216%	Not Listed
• 2,2'-Dibenzamido diphenyl disulfite	135-57-9	0.1% TO 1%	Not Listed
• Sulfur homopolymer	9035-99-8	1.7064%	Not Listed

United States**Labor****U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals**

• Fuels, diesel, No. 2	68476-34-6	0.4756%	Not Listed
• Calcium silicate	1344-95-2	0.1% TO 1%	Not Listed
• Stearic acid	57-11-4	1.13%	Not Listed
• Tall oil	8002-26-4	0.1312%	Not Listed
• Tall oil pitch	8016-81-7	1.538%	Not Listed
• Trimethyldihydroquinoline_Antioxidant	26780-96-1	1% TO 5%	Not Listed
• 1,3-Butadiene, 2-methyl-, oligomer	9003-31-0	53.82%	Not Listed
• Kaolin	1332-58-7	0.1% TO 1%	Not Listed
• Propionic acid	79-09-4	0.0028% TO 0.0141%	Not Listed
• Naphthenic Oil	64742-52-5	8.164%	Not Listed
• Carbon Black	1333-86-4	15% TO 40%	Not Listed
• Zinc oxide	1314-13-2	1% TO 5%	Not Listed
• Zinc oxide as Zinc compounds		1% TO 5%	Not Listed
• Sulfur	7704-34-9	0.1896%	Not Listed
• Rosin oil	68425-08-1	0.216%	Not Listed
• 2,2'-Dibenzamido diphenyl disulfite	135-57-9	0.1% TO 1%	Not Listed
• Sulfur homopolymer	9035-99-8	1.7064%	Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

• Fuels, diesel, No. 2	68476-34-6	0.4756%	Not Listed
• Calcium silicate	1344-95-2	0.1% TO 1%	Not Listed
• Stearic acid	57-11-4	1.13%	Not Listed
• Tall oil	8002-26-4	0.1312%	Not Listed

• Tall oil pitch	8016-81-7	1.538%	Not Listed
• Trimethyldihydroquinoline_Antioxidant	26780-96-1	1% TO 5%	Not Listed
• 1,3-Butadiene, 2-methyl-, oligomer	9003-31-0	53.82%	Not Listed
• Kaolin	1332-58-7	0.1% TO 1%	Not Listed
• Propionic acid	79-09-4	0.0028% TO 0.0141%	Not Listed
• Naphthenic Oil	64742-52-5	8.164%	Not Listed
• Carbon Black	1333-86-4	15% TO 40%	Not Listed
• Zinc oxide	1314-13-2	1% TO 5%	Not Listed
• Zinc oxide as Zinc compounds		1% TO 5%	Not Listed
• Sulfur	7704-34-9	0.1896%	Not Listed
• Rosin oil	68425-08-1	0.216%	Not Listed
• 2,2'-Dibenzamido diphenyl disulfite	135-57-9	0.1% TO 1%	Not Listed
• Sulfur homopolymer	9035-99-8	1.7064%	Not Listed

Environment**U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants**

• Fuels, diesel, No. 2	68476-34-6	0.4756%	Not Listed
• Calcium silicate	1344-95-2	0.1% TO 1%	Not Listed
• Stearic acid	57-11-4	1.13%	Not Listed
• Tall oil	8002-26-4	0.1312%	Not Listed
• Tall oil pitch	8016-81-7	1.538%	Not Listed
• Trimethyldihydroquinoline_Antioxidant	26780-96-1	1% TO 5%	Not Listed
• 1,3-Butadiene, 2-methyl-, oligomer	9003-31-0	53.82%	Not Listed
• Kaolin	1332-58-7	0.1% TO 1%	Not Listed
• Propionic acid	79-09-4	0.0028% TO 0.0141%	Not Listed
• Naphthenic Oil	64742-52-5	8.164%	Not Listed
• Carbon Black	1333-86-4	15% TO 40%	Not Listed
• Zinc oxide	1314-13-2	1% TO 5%	Not Listed
• Zinc oxide as Zinc compounds		1% TO 5%	Not Listed
• Sulfur	7704-34-9	0.1896%	Not Listed
• Rosin oil	68425-08-1	0.216%	Not Listed
• 2,2'-Dibenzamido diphenyl disulfite	135-57-9	0.1% TO 1%	Not Listed
• Sulfur homopolymer	9035-99-8	1.7064%	Not Listed

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

• Fuels, diesel, No. 2	68476-34-6	0.4756%	Not Listed
• Calcium silicate	1344-95-2	0.1% TO 1%	Not Listed
• Stearic acid	57-11-4	1.13%	Not Listed
• Tall oil	8002-26-4	0.1312%	Not Listed
• Tall oil pitch	8016-81-7	1.538%	Not Listed
• Trimethyldihydroquinoline_Antioxidant	26780-96-1	1% TO 5%	Not Listed
• 1,3-Butadiene, 2-methyl-, oligomer	9003-31-0	53.82%	Not Listed
• Kaolin	1332-58-7	0.1% TO 1%	Not Listed
• Propionic acid	79-09-4	0.0028% TO 0.0141%	5000 lb final RQ; 2270 kg final RQ
• Naphthenic Oil	64742-52-5	8.164%	Not Listed
• Carbon Black	1333-86-4	15% TO 40%	Not Listed
• Zinc oxide	1314-13-2	1% TO 5%	Not Listed
• Zinc oxide as Zinc compounds		1% TO 5%	Not Listed
• Sulfur	7704-34-9	0.1896%	Not Listed

• Rosin oil	68425-08-1	0.216%	Not Listed
• 2,2'-Dibenzamido diphenyl disulfite	135-57-9	0.1% TO 1%	Not Listed
• Sulfur homopolymer	9035-99-8	1.7064%	Not Listed

U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

• Fuels, diesel, No. 2	68476-34-6	0.4756%	Not Listed
• Calcium silicate	1344-95-2	0.1% TO 1%	Not Listed
• Stearic acid	57-11-4	1.13%	Not Listed
• Tall oil	8002-26-4	0.1312%	Not Listed
• Tall oil pitch	8016-81-7	1.538%	Not Listed
• Trimethyldihydroquinoline_Antioxidant	26780-96-1	1% TO 5%	Not Listed
• 1,3-Butadiene, 2-methyl-, oligomer	9003-31-0	53.82%	Not Listed
• Kaolin	1332-58-7	0.1% TO 1%	Not Listed
• Propionic acid	79-09-4	0.0028% TO 0.0141%	Not Listed
• Naphthenic Oil	64742-52-5	8.164%	Not Listed
• Carbon Black	1333-86-4	15% TO 40%	Not Listed
• Zinc oxide	1314-13-2	1% TO 5%	Not Listed
• Zinc oxide as Zinc compounds		1% TO 5%	Not Listed
• Sulfur	7704-34-9	0.1896%	Not Listed
• Rosin oil	68425-08-1	0.216%	Not Listed
• 2,2'-Dibenzamido diphenyl disulfite	135-57-9	0.1% TO 1%	Not Listed
• Sulfur homopolymer	9035-99-8	1.7064%	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

• Fuels, diesel, No. 2	68476-34-6	0.4756%	Not Listed
• Calcium silicate	1344-95-2	0.1% TO 1%	Not Listed
• Stearic acid	57-11-4	1.13%	Not Listed
• Tall oil	8002-26-4	0.1312%	Not Listed
• Tall oil pitch	8016-81-7	1.538%	Not Listed
• Trimethyldihydroquinoline_Antioxidant	26780-96-1	1% TO 5%	Not Listed
• 1,3-Butadiene, 2-methyl-, oligomer	9003-31-0	53.82%	Not Listed
• Kaolin	1332-58-7	0.1% TO 1%	Not Listed
• Propionic acid	79-09-4	0.0028% TO 0.0141%	Not Listed
• Naphthenic Oil	64742-52-5	8.164%	Not Listed
• Carbon Black	1333-86-4	15% TO 40%	Not Listed
• Zinc oxide	1314-13-2	1% TO 5%	Not Listed
• Zinc oxide as Zinc compounds		1% TO 5%	Not Listed
• Sulfur	7704-34-9	0.1896%	Not Listed
• Rosin oil	68425-08-1	0.216%	Not Listed
• 2,2'-Dibenzamido diphenyl disulfite	135-57-9	0.1% TO 1%	Not Listed
• Sulfur homopolymer	9035-99-8	1.7064%	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

• Fuels, diesel, No. 2	68476-34-6	0.4756%	Not Listed
• Calcium silicate	1344-95-2	0.1% TO 1%	Not Listed
• Stearic acid	57-11-4	1.13%	Not Listed
• Tall oil	8002-26-4	0.1312%	Not Listed

• Tall oil pitch	8016-81-7	1.538%	Not Listed
• Trimethyldihydroquinoline_Antioxidant	26780-96-1	1% TO 5%	Not Listed
• 1,3-Butadiene, 2-methyl-, oligomer	9003-31-0	53.82%	Not Listed
• Kaolin	1332-58-7	0.1% TO 1%	Not Listed
• Propionic acid	79-09-4	0.0028% TO 0.0141%	Not Listed
• Naphthenic Oil	64742-52-5	8.164%	Not Listed
• Carbon Black	1333-86-4	15% TO 40%	Not Listed
• Zinc oxide	1314-13-2	1% TO 5%	Not Listed
• Zinc oxide as Zinc compounds		1% TO 5%	Not Listed
• Sulfur	7704-34-9	0.1896%	Not Listed
• Rosin oil	68425-08-1	0.216%	Not Listed
• 2,2'-Dibenzamido diphenyl disulfite	135-57-9	0.1% TO 1%	Not Listed
• Sulfur homopolymer	9035-99-8	1.7064%	Not Listed

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

• Fuels, diesel, No. 2	68476-34-6	0.4756%	Not Listed
• Calcium silicate	1344-95-2	0.1% TO 1%	Not Listed
• Stearic acid	57-11-4	1.13%	Not Listed
• Tall oil	8002-26-4	0.1312%	Not Listed
• Tall oil pitch	8016-81-7	1.538%	Not Listed
• Trimethyldihydroquinoline_Antioxidant	26780-96-1	1% TO 5%	Not Listed
• 1,3-Butadiene, 2-methyl-, oligomer	9003-31-0	53.82%	Not Listed
• Kaolin	1332-58-7	0.1% TO 1%	Not Listed
• Propionic acid	79-09-4	0.0028% TO 0.0141%	Not Listed
• Naphthenic Oil	64742-52-5	8.164%	Not Listed
• Carbon Black	1333-86-4	15% TO 40%	Not Listed
• Zinc oxide	1314-13-2	1% TO 5%	Not Listed
• Zinc oxide as Zinc compounds		1% TO 5%	1.0 % de minimis concentration (Chemical Category N982)
• Sulfur	7704-34-9	0.1896%	Not Listed
• Rosin oil	68425-08-1	0.216%	Not Listed
• 2,2'-Dibenzamido diphenyl disulfite	135-57-9	0.1% TO 1%	Not Listed
• Sulfur homopolymer	9035-99-8	1.7064%	Not Listed

U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

• Fuels, diesel, No. 2	68476-34-6	0.4756%	Not Listed
• Calcium silicate	1344-95-2	0.1% TO 1%	Not Listed
• Stearic acid	57-11-4	1.13%	Not Listed
• Tall oil	8002-26-4	0.1312%	Not Listed
• Tall oil pitch	8016-81-7	1.538%	Not Listed
• Trimethyldihydroquinoline_Antioxidant	26780-96-1	1% TO 5%	Not Listed
• 1,3-Butadiene, 2-methyl-, oligomer	9003-31-0	53.82%	Not Listed
• Kaolin	1332-58-7	0.1% TO 1%	Not Listed
• Propionic acid	79-09-4	0.0028% TO 0.0141%	Not Listed
• Naphthenic Oil	64742-52-5	8.164%	Not Listed
• Carbon Black	1333-86-4	15% TO 40%	Not Listed
• Zinc oxide	1314-13-2	1% TO 5%	Not Listed
• Zinc oxide as Zinc compounds		1% TO 5%	Not Listed
• Sulfur	7704-34-9	0.1896%	Not Listed
• Rosin oil	68425-08-1	0.216%	Not Listed

• 2,2'-Dibenzamido diphenyl disulfite	135-57-9	0.1% TO 1%	Not Listed
• Sulfur homopolymer	9035-99-8	1.7064%	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - F Series Wastes - Wastes from Nonspecific Sources

• Fuels, diesel, No. 2	68476-34-6	0.4756%	Not Listed
• Calcium silicate	1344-95-2	0.1% TO 1%	Not Listed
• Stearic acid	57-11-4	1.13%	Not Listed
• Tall oil	8002-26-4	0.1312%	Not Listed
• Tall oil pitch	8016-81-7	1.538%	Not Listed
• Trimethyldihydroquinoline_Antioxidant	26780-96-1	1% TO 5%	Not Listed
• 1,3-Butadiene, 2-methyl-, oligomer	9003-31-0	53.82%	Not Listed
• Kaolin	1332-58-7	0.1% TO 1%	Not Listed
• Propionic acid	79-09-4	0.0028% TO 0.0141%	Not Listed
• Naphthenic Oil	64742-52-5	8.164%	Not Listed
• Carbon Black	1333-86-4	15% TO 40%	Not Listed
• Zinc oxide	1314-13-2	1% TO 5%	Not Listed
• Zinc oxide as Zinc compounds		1% TO 5%	Not Listed
• Sulfur	7704-34-9	0.1896%	Not Listed
• Rosin oil	68425-08-1	0.216%	Not Listed
• 2,2'-Dibenzamido diphenyl disulfite	135-57-9	0.1% TO 1%	Not Listed
• Sulfur homopolymer	9035-99-8	1.7064%	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Hazardous Constituents - Appendix VIII to 40 CFR 261

• Fuels, diesel, No. 2	68476-34-6	0.4756%	Not Listed
• Calcium silicate	1344-95-2	0.1% TO 1%	Not Listed
• Stearic acid	57-11-4	1.13%	Not Listed
• Tall oil	8002-26-4	0.1312%	Not Listed
• Tall oil pitch	8016-81-7	1.538%	Not Listed
• Trimethyldihydroquinoline_Antioxidant	26780-96-1	1% TO 5%	Not Listed
• 1,3-Butadiene, 2-methyl-, oligomer	9003-31-0	53.82%	Not Listed
• Kaolin	1332-58-7	0.1% TO 1%	Not Listed
• Propionic acid	79-09-4	0.0028% TO 0.0141%	Not Listed
• Naphthenic Oil	64742-52-5	8.164%	Not Listed
• Carbon Black	1333-86-4	15% TO 40%	Not Listed
• Zinc oxide	1314-13-2	1% TO 5%	Not Listed
• Zinc oxide as Zinc compounds		1% TO 5%	Not Listed
• Sulfur	7704-34-9	0.1896%	Not Listed
• Rosin oil	68425-08-1	0.216%	Not Listed
• 2,2'-Dibenzamido diphenyl disulfite	135-57-9	0.1% TO 1%	Not Listed
• Sulfur homopolymer	9035-99-8	1.7064%	Not Listed

United States - California**Environment****U.S. - California - Proposition 65 - Carcinogens List**

• Fuels, diesel, No. 2	68476-34-6	0.4756%	Not Listed
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• Calcium silicate	1344-95-2	0.1% TO 1%	Not Listed
• Stearic acid	57-11-4	1.13%	Not Listed
• Tall oil	8002-26-4	0.1312%	Not Listed
• Tall oil pitch	8016-81-7	1.538%	Not Listed
• Trimethyldihydroquinoline_Antioxidant	26780-96-1	1% TO 5%	Not Listed
• 1,3-Butadiene, 2-methyl-, oligomer	9003-31-0	53.82%	Not Listed
• Kaolin	1332-58-7	0.1% TO 1%	Not Listed
• Propionic acid	79-09-4	0.0028% TO 0.0141%	Not Listed
• Naphthenic Oil	64742-52-5	8.164%	Not Listed
• Carbon Black	1333-86-4	15% TO 40%	carcinogen, initial date 2/21/03 (airborne, unbound particles of respirable size)
• Zinc oxide	1314-13-2	1% TO 5%	Not Listed
• Zinc oxide as Zinc compounds		1% TO 5%	Not Listed
• Sulfur	7704-34-9	0.1896%	Not Listed
• Rosin oil	68425-08-1	0.216%	Not Listed
• 2,2'-Dibenzamido diphenyl disulfite	135-57-9	0.1% TO 1%	Not Listed
• Sulfur homopolymer	9035-99-8	1.7064%	Not Listed

U.S. - California - Proposition 65 - Developmental Toxicity

• Fuels, diesel, No. 2	68476-34-6	0.4756%	Not Listed
• Calcium silicate	1344-95-2	0.1% TO 1%	Not Listed
• Stearic acid	57-11-4	1.13%	Not Listed
• Tall oil	8002-26-4	0.1312%	Not Listed
• Tall oil pitch	8016-81-7	1.538%	Not Listed
• Trimethyldihydroquinoline_Antioxidant	26780-96-1	1% TO 5%	Not Listed
• 1,3-Butadiene, 2-methyl-, oligomer	9003-31-0	53.82%	Not Listed
• Kaolin	1332-58-7	0.1% TO 1%	Not Listed
• Propionic acid	79-09-4	0.0028% TO 0.0141%	Not Listed
• Naphthenic Oil	64742-52-5	8.164%	Not Listed
• Carbon Black	1333-86-4	15% TO 40%	Not Listed
• Zinc oxide	1314-13-2	1% TO 5%	Not Listed
• Zinc oxide as Zinc compounds		1% TO 5%	Not Listed
• Sulfur	7704-34-9	0.1896%	Not Listed
• Rosin oil	68425-08-1	0.216%	Not Listed
• 2,2'-Dibenzamido diphenyl disulfite	135-57-9	0.1% TO 1%	Not Listed
• Sulfur homopolymer	9035-99-8	1.7064%	Not Listed

U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

• Fuels, diesel, No. 2	68476-34-6	0.4756%	Not Listed
• Calcium silicate	1344-95-2	0.1% TO 1%	Not Listed
• Stearic acid	57-11-4	1.13%	Not Listed
• Tall oil	8002-26-4	0.1312%	Not Listed
• Tall oil pitch	8016-81-7	1.538%	Not Listed
• Trimethyldihydroquinoline_Antioxidant	26780-96-1	1% TO 5%	Not Listed
• 1,3-Butadiene, 2-methyl-, oligomer	9003-31-0	53.82%	Not Listed
• Kaolin	1332-58-7	0.1% TO 1%	Not Listed
• Propionic acid	79-09-4	0.0028% TO 0.0141%	Not Listed
• Naphthenic Oil	64742-52-5	8.164%	Not Listed
• Carbon Black	1333-86-4	15% TO 40%	Not Listed

• Zinc oxide	1314-13-2	1% TO 5%	Not Listed
• Zinc oxide as Zinc compounds		1% TO 5%	Not Listed
• Sulfur	7704-34-9	0.1896%	Not Listed
• Rosin oil	68425-08-1	0.216%	Not Listed
• 2,2'-Dibenzamldo diphenyl disulfite	135-57-9	0.1% TO 1%	Not Listed
• Sulfur homopolymer	9035-99-8	1.7064%	Not Listed

U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)

• Fuels, diesel, No. 2	68476-34-6	0.4756%	Not Listed
• Calcium silicate	1344-95-2	0.1% TO 1%	Not Listed
• Stearic acid	57-11-4	1.13%	Not Listed
• Tall oil	8002-26-4	0.1312%	Not Listed
• Tall oil pitch	8016-81-7	1.538%	Not Listed
• Trimethyldihydroquinoline_Antioxidant	26780-96-1	1% TO 5%	Not Listed
• 1,3-Butadiene, 2-methyl-, oligomer	9003-31-0	53.82%	Not Listed
• Kaolin	1332-58-7	0.1% TO 1%	Not Listed
• Propionic acid	79-09-4	0.0028% TO 0.0141%	Not Listed
• Naphthenic Oil	64742-52-5	8.164%	Not Listed
• Carbon Black	1333-86-4	15% TO 40%	Not Listed
• Zinc oxide	1314-13-2	1% TO 5%	Not Listed
• Zinc oxide as Zinc compounds		1% TO 5%	Not Listed
• Sulfur	7704-34-9	0.1896%	Not Listed
• Rosin oil	68425-08-1	0.216%	Not Listed
• 2,2'-Dibenzamldo diphenyl disulfite	135-57-9	0.1% TO 1%	Not Listed
• Sulfur homopolymer	9035-99-8	1.7064%	Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Female

• Fuels, diesel, No. 2	68476-34-6	0.4756%	Not Listed
• Calcium silicate	1344-95-2	0.1% TO 1%	Not Listed
• Stearic acid	57-11-4	1.13%	Not Listed
• Tall oil	8002-26-4	0.1312%	Not Listed
• Tall oil pitch	8016-81-7	1.538%	Not Listed
• Trimethyldihydroquinoline_Antioxidant	26780-96-1	1% TO 5%	Not Listed
• 1,3-Butadiene, 2-methyl-, oligomer	9003-31-0	53.82%	Not Listed
• Kaolin	1332-58-7	0.1% TO 1%	Not Listed
• Propionic acid	79-09-4	0.0028% TO 0.0141%	Not Listed
• Naphthenic Oil	64742-52-5	8.164%	Not Listed
• Carbon Black	1333-86-4	15% TO 40%	Not Listed
• Zinc oxide	1314-13-2	1% TO 5%	Not Listed
• Zinc oxide as Zinc compounds		1% TO 5%	Not Listed
• Sulfur	7704-34-9	0.1896%	Not Listed
• Rosin oil	68425-08-1	0.216%	Not Listed
• 2,2'-Dibenzamldo diphenyl disulfite	135-57-9	0.1% TO 1%	Not Listed
• Sulfur homopolymer	9035-99-8	1.7064%	Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Male

• Fuels, diesel, No. 2	68476-34-6	0.4756%	Not Listed
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• Calcium silicate	1344-95-2	0.1% TO 1%	Not Listed
• Stearic acid	57-11-4	1.13%	Not Listed
• Tall oil	8002-26-4	0.1312%	Not Listed
• Tall oil pitch	8016-81-7	1.538%	Not Listed
• Trimethyldihydroquinoline_Antioxidant	26780-96-1	1% TO 5%	Not Listed
• 1,3-Butadiene, 2-methyl-, oligomer	9003-31-0	53.82%	Not Listed
• Kaolin	1332-58-7	0.1% TO 1%	Not Listed
• Propionic acid	79-09-4	0.0028% TO 0.0141%	Not Listed
• Naphthenic Oil	64742-52-5	8.164%	Not Listed
• Carbon Black	1333-86-4	15% TO 40%	Not Listed
• Zinc oxide	1314-13-2	1% TO 5%	Not Listed
• Zinc oxide as Zinc compounds		1% TO 5%	Not Listed
• Sulfur	7704-34-9	0.1896%	Not Listed
• Rosin oil	68425-08-1	0.216%	Not Listed
• 2,2'-Dibenzamldo diphenyl disulfite	135-57-9	0.1% TO 1%	Not Listed
• Sulfur homopolymer	9035-99-8	1.7064%	Not Listed

United States - Pennsylvania

Labor

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

• Fuels, diesel, No. 2	68476-34-6	0.4756%	Not Listed
• Calcium silicate	1344-95-2	0.1% TO 1%	Not Listed
• Stearic acid	57-11-4	1.13%	Not Listed
• Tall oil	8002-26-4	0.1312%	Not Listed
• Tall oil pitch	8016-81-7	1.538%	Not Listed
• Trimethyldihydroquinoline_Antioxidant	26780-96-1	1% TO 5%	Not Listed
• 1,3-Butadiene, 2-methyl-, oligomer	9003-31-0	53.82%	Not Listed
• Kaolin	1332-58-7	0.1% TO 1%	Not Listed
• Propionic acid	79-09-4	0.0028% TO 0.0141%	
• Naphthenic Oil	64742-52-5	8.164%	Not Listed
• Carbon Black	1333-86-4	15% TO 40%	Not Listed
• Zinc oxide	1314-13-2	1% TO 5%	(fume)
• Zinc oxide as Zinc compounds		1% TO 5%	
• Sulfur	7704-34-9	0.1896%	Not Listed
• Rosin oil	68425-08-1	0.216%	Not Listed
• 2,2'-Dibenzamldo diphenyl disulfite	135-57-9	0.1% TO 1%	Not Listed
• Sulfur homopolymer	9035-99-8	1.7064%	Not Listed

U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances

• Fuels, diesel, No. 2	68476-34-6	0.4756%	Not Listed
• Calcium silicate	1344-95-2	0.1% TO 1%	Not Listed
• Stearic acid	57-11-4	1.13%	Not Listed
• Tall oil	8002-26-4	0.1312%	Not Listed
• Tall oil pitch	8016-81-7	1.538%	Not Listed
• Trimethyldihydroquinoline_Antioxidant	26780-96-1	1% TO 5%	Not Listed
• 1,3-Butadiene, 2-methyl-, oligomer	9003-31-0	53.82%	Not Listed
• Kaolin	1332-58-7	0.1% TO 1%	Not Listed

• Propionic acid	79-09-4	0.0028% TO 0.0141%	Not Listed
• Naphthenic Oil	64742-52-5	8.164%	Not Listed
• Carbon Black	1333-86-4	15% TO 40%	Not Listed
• Zinc oxide	1314-13-2	1% TO 5%	Not Listed
• Zinc oxide as Zinc compounds		1% TO 5%	Not Listed
• Sulfur	7704-34-9	0.1896%	Not Listed
• Rosin oil	68425-08-1	0.216%	Not Listed
• 2,2'-Dibenzamido diphenyl disulfite	135-57-9	0.1% TO 1%	Not Listed
• Sulfur homopolymer	9035-99-8	1.7064%	Not Listed

United States - Rhode Island

Labor

U.S. - Rhode Island - Hazardous Substance List

• Fuels, diesel, No. 2	68476-34-6	0.4756%	Not Listed
• Calcium silicate	1344-95-2	0.1% TO 1%	Toxic
• Stearic acid	57-11-4	1.13%	Not Listed
• Tall oil	8002-26-4	0.1312%	Not Listed
• Tall oil pitch	8016-81-7	1.538%	Not Listed
• Trimethyldihydroquinoline_Antioxidant	26780-96-1	1% TO 5%	Not Listed
• 1,3-Butadiene, 2-methyl-, oligomer	9003-31-0	53.82%	Not Listed
• Kaolin	1332-58-7	0.1% TO 1%	Toxic
• Propionic acid	79-09-4	0.0028% TO 0.0141%	Toxic; Flammable
• Naphthenic Oil	64742-52-5	8.164%	Not Listed
• Carbon Black	1333-86-4	15% TO 40%	Toxic
• Zinc oxide	1314-13-2	1% TO 5%	Toxic
• Zinc oxide as Zinc compounds		1% TO 5%	Not Listed
• Sulfur	7704-34-9	0.1896%	Flammable
• Rosin oil	68425-08-1	0.216%	Not Listed
• 2,2'-Dibenzamido diphenyl disulfite	135-57-9	0.1% TO 1%	Not Listed
• Sulfur homopolymer	9035-99-8	1.7064%	Not Listed

15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

15.3 Other Information

- WARNING: This product contains a chemical known to the State of California to cause cancer.

Section 16 - Other Information

Relevant Phrases (code & full text)

- H302 - Harmful if swallowed
- H314 - Causes severe skin burns and eye damage
- H315 - Causes skin irritation
- H317 - May cause an allergic skin reaction
- H319 - Causes serious eye irritation
- H335 - May cause respiratory irritation
- H350 - May cause cancer.

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
R22 - Harmful if swallowed.
R34 - Causes burns.
R36/37 - Irritating to eyes and respiratory system.
R36/38 - Irritating to eyes and skin.
R36/37/38 - Irritating to eyes, respiratory system and skin.
R38 - Irritating to skin.
R43 - May cause sensitisation by skin contact.
R45 - May cause cancer.
R51 - Toxic to aquatic organisms.
R50 - Very toxic to aquatic organisms.

Last Revision Date

- 22/February/2013

Preparation Date

- 22/February/2013

Disclaimer/Statement of Liability

- The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstance of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.

Key to abbreviations

NDA = No data available
