

Safety Data Sheet

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

Product Name • **SLIP Plate Chain & Cable Aerosol**

Product Code •

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

Relevant identified use(s) • Dry film lubricant

1.3 Details of the supplier of the safety data sheet

Manufacturer • Superior Graphite
 10 S. Riverside Plaza
 Chicago, IL 60606
 United States

Telephone (General) • 312-559-2999 - (8-5 CST, M-F)

1.4 Emergency telephone number

Manufacturer • 1-800-424-9300 - For Hazardous Materials [or Dangerous Goods] Incident Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night

Manufacturer • +1 703-527-3887 - Outside USA and Canada (collect calls accepted)

Section 2: Hazards Identification
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EU/EEC

According to Regulation (EC) No 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 • Flammable Aerosols 1 - H222
 Skin Irritation 2 - H315
 Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects - H336
 Specific Target Organ Toxicity Repeated Exposure 2 - H373
 Hazardous to the aquatic environment Chronic 2 - H411
 EUH066

DSD/DPD • Extremely Flammable (F+)
 Harmful (Xn)
 Dangerous to the Environment (N)
 R12, R48/20, R66, R67, R51, R53

2.2 Label Elements

CLP

DANGER



- Hazard statements**
- H222 - Extremely flammable aerosol
 - H315 - Causes skin irritation
 - H336 - May cause drowsiness or dizziness
 - H373 - May cause damage to organs - Lungs through prolonged or repeated exposure via Inhalation
 - H411 - Toxic to aquatic life with long lasting effects
 - EUH066 - Repeated exposure may cause skin dryness or cracking.

Precautionary statements

- Prevention**
- P210 - Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.
 - P211 - Do not spray on an open flame or other ignition source.
 - P251 - Pressurized container: Do not pierce or burn, even after use.
 - P260 - Do not breathe mist/vapours/spray.
 - P264 - Wash thoroughly after handling.
 - P271 - Use only outdoors or in a well-ventilated area.
 - P273 - Avoid release to the environment.
 - P280 - Wear protective gloves .
- Response**
- P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 - P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
 - P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
 - P362 - Take off contaminated clothing and wash before reuse.
 - P332+P313 - If skin irritation occurs: Get medical advice/attention.
 - P321 - Specific treatment, see supplemental first aid information.
 - P314 - Get medical advice/attention if you feel unwell.
 - P391 - Collect spillage.
- Storage/Disposal**
- P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
 - P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
 - P405 - Store locked up.
 - P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

DSD/DPD



- Risk phrases**
- R12 - Extremely flammable.
 - R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation.
 - R66 - Repeated exposure may cause skin dryness or cracking.
 - R67 - Vapours may cause drowsiness and dizziness.
 - R51 - Toxic to aquatic organisms.
 - R53 - May cause long-term adverse effects in the aquatic environment.
- Safety phrases**
- S9 - Keep container in a well ventilated place
 - S16 - Keep away from sources of ignition - No Smoking.
 - 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 material 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

- Flammable Aerosols 1 - H222
- Skin Irritation 2 - H315
- Eye Irritation 2 - H319
- Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects - H336
- Specific Target Organ Toxicity Repeated Exposure 1 - H372

2.2 Label elements**OSHA HCS 2012****DANGER**

- Hazard statements**
- Extremely flammable aerosol - H222
 - Causes skin irritation - H315
 - Causes serious eye irritation - H319
 - May cause drowsiness or dizziness - H336
 - Causes damage to organs - Lungs through prolonged or repeated exposure via Inhalation - H372

Precautionary statements

- Prevention**
- Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking. - P210
 - Do not spray on an open flame or other ignition source. - P211
 - Pressurized container: Do not pierce or burn, even after use. - P251
 - Do not breathe mist/vapours/spray. - P260
 - Wash thoroughly after handling. - P264
 - Do not eat, drink or smoke when using this product. - P270
 - Use only outdoors or in a well-ventilated area. - P271
 - Wear eye/face protection , . - P280
 - Wear protective gloves . - P280
- Response**
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. - P304+P340
 - Call a POISON CENTER or doctor/physician if you feel unwell. - P312
 - If on skin: Wash with plenty of water .
 - Take off contaminated clothing and wash before reuse. - P362
 - If skin irritation occurs: Get medical advice/attention. - P332+P313
 - Specific treatment, see supplemental first aid information. - P321
 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. - P305+P351+P338
 - If eye irritation persists: Get medical advice/attention. - P337+P313
 - IF exposed or concerned: Get medical advice/attention. - P308+P313
 - Get medical advice/attention if you feel unwell. - P314
- Storage/Disposal**
- Store in a well-ventilated place. Keep container tightly closed. - P403+P233
 - Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. - P410+P412
 - 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**

- Flammable Aerosols - B5
- Other Toxic Effects - D2A
- Other Toxic Effects - D2B

2.2 Label elements

WHMIS



- Flammable Aerosols - B5
- Other Toxic Effects - D2A
- Other Toxic Effects - D2B

2.3 Other hazards

WHMIS

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

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

Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	CAS: 64742-52-5 EC Number: 265-155-0 EU Index: 649-465-00-7	< 70%	Ingestion/Oral-Rat LD50 • >5000 mg/kg Skin-Rabbit LD50 • >2000 mg/kg	EU DSD/DPD: Annex VI, Table 3.2: Carc. Cat. 2 R45 (Note L) EU CLP: Annex VI, Table 3.1: Carc. 1B; H350 (Note L) OSHA HCS 2012: Skin Irrit. 2	Contains <3% DMSO therefore carcinogen classification does not apply
Heptane	CAS: 142-82-5 EC Number: 205-563-8 EU Index: 601-008-00-2	< 20%	Inhalation-Rat LC50 • 103 g/m ³ 4 Hour(s)	EU DSD/DPD: Annex VI, Table 3.2: F R11 Xi R38 N R50-53 Xn R65 R67 EU CLP: Annex VI, Table 3.1: Flam. Liq. 2, H225; Asp. Tox. 1, H304; Skin Irrit. 2, H315; STOT SE 3: Narc., H336; Aquatic Acute 1, H400; Aquatic Chronic 1, H410 OSHA HCS 2012: Flam. Liq. 2; Skin Irrit. 2; Eye Irrit. 2; Asp. Tox. 1; STOT SE 3: Narc.	NDA
Coke (petroleum), calcined	CAS: 64743-05-1 EC Number: 265-210-9	< 10%	NDA	EU DSD/DPD: Self Classified: T R48/20 EU CLP: Self Classified: STOT RE 1 (Lungs, Inhl), H372 OSHA HCS 2012: STOT RE 1 (Lungs, Inhl)	NDA
Acetone	CAS: 67-64-1 EC Number: 200-662-2 EU Index: 606-001-00-8	< 10%	Ingestion/Oral-Rat LD50 • 5800 mg/kg Inhalation-Rat LC50 • 50100 mg/m ³	EU DSD/DPD: Annex VI, Table 3.2: F R11 Xi R36 R66 R67 EU CLP: Annex VI, Table 3.1: Flam. Liq. 2, H226; Eye Irrit. 2, H319; STOT SE 3: Narc., H336; EUH066 OSHA HCS 2012: Flam. Liq. 2; Eye Irrit. 2, STOT SE 3: Narc.	NDA
	CAS: 74-98-6 EC			EU DSD/DPD: Annex VI, Table 3.2: F+; R12	

Propane	Number:200-827-9 EU Index:601-003-00-5	< 6%	NDA	EU CLP: Annex VI, Table 3.1: Flam. Gas 1, H220; Press. Gas - Comp., H280 OSHA HCS 2012: Flam. Gas 1; Press. Gas - Comp.; Simp. Asphyx.	NDA
Butane	CAS:106-97-8 EC Number:203-448-7 EU Index:601-004-00-0	< 6%	Inhalation-Rat LC50 • 658 g/m ³ 4 Hour(s)	EU DSD/DPD: Annex VI, Table 3.2: F+ R12 EU CLP: Annex VI, Table 3.1: Flam. Gas 1, H220; Press. Gas - Comp., H280 OSHA HCS 2012: Flam. Gas 1; Press. Gas - Comp.; Simp. Asphyx.	NDA

Section 4 - First Aid Measures

4.1 Description of first aid measures

Inhalation

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If signs/symptoms continue, get medical attention. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing.

Skin

- In case of contact with substance, immediately flush skin with running water for at least 20 minutes. For minor skin contact, avoid spreading material on unaffected skin. Get medical attention immediately if symptoms occur.

Eye

- In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. If eye irritation persists: Get medical advice/attention.

Ingestion

- If swallowed, DO NOT induce vomiting. 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

- 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

- LARGE FIRE: Water spray, fog or regular foam.
SMALL FIRES: Dry chemical, CO₂, water spray or regular foam.

Unsuitable Extinguishing Media

- No data available

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards

- Closed containers may explode from internal pressure build-up when exposed to extreme heat and discharge contents. Vapors may travel to source of ignition and flash back. Vapors may form explosive mixtures with air. Overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

Hazardous Combustion Products

- On burning, may release carbon dioxide and carbon monoxide.

5.3 Advice for firefighters

- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible. Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection.

Wear positive pressure self-contained breathing apparatus (SCBA).
Water may be used to cool containers to prevent pressure build-up and explosion when exposed to extreme heat.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions

- Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate enclosed areas.

Emergency Procedures

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Keep unauthorized personnel away. Stay upwind. Ventilate closed spaces before entering. Keep out of low areas.

6.2 Environmental precautions

- Prevent entry into waterways and sewers.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures

- Clean up area with absorbent material and place in closed containers for disposal. Wash floor with soap and water.

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

- Keep away from heat and ignition sources – No Smoking. Take precautionary measures against static charges. All equipment used when handling the product must be grounded. Do not puncture or incinerate (burn) cans. Do not stick a pin, nail or any other sharp object into opening on top of can. Use only with adequate ventilation. Use good safety and industrial hygiene practices. Wear appropriate personal protective equipment, avoid direct contact. Do not breathe (dust, vapor or spray mist) Avoid contact with eyes, skin and clothing. Do not use near ignition sources such as sparks or open flames. Do not cut, drill or weld on containers. Even empty containers may contain residue that will support a flame or explode when exposed to a spark, flame or other source of ignition. Do not eat, drink or smoke when using this product. After handling wash hands thoroughly.

7.2 Conditions for safe storage, including any incompatibilities

Storage

- Store in a cool, dry, well-ventilated place. Keep away from heat, sparks, and flame. Do not store at temperatures >120° F

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	NIOSH	OSHA
Propane (74-98-6)	TWAs	1000 ppm TWA (listed under Aliphatic hydrocarbon gases: Alkane C1-4)	1000 ppm TWA; 1800 mg/m ³ TWA	1000 ppm TWA; 1800 mg/m ³ TWA

Butane (106-97-8)	STELs	1000 ppm STEL	Not established	Not established
	TWAs	Not established	800 ppm TWA; 1900 mg/m3 TWA	Not established
Acetone (67-64-1)	TWAs	500 ppm TWA	250 ppm TWA; 590 mg/m3 TWA	1000 ppm TWA; 2400 mg/m3 TWA
	STELs	750 ppm STEL	Not established	Not established
Heptane (142-82-5)	TWAs	400 ppm TWA (listed under Heptane, all isomers)	85 ppm TWA; 350 mg/m3 TWA	500 ppm TWA; 2000 mg/m3 TWA
	STELs	500 ppm STEL (listed under Heptane, all isomers)	Not established	Not established
	Ceilings	Not established	440 ppm Ceiling (15 min); 1800 mg/m3 Ceiling (15 min)	Not established

8.2 Exposure controls

Engineering Measures/Controls

- Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal Protective Equipment

Respiratory

- Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

Eye/Face

- Wear safety goggles.

Skin/Body

- Wear protective clothing and gloves.

Environmental Exposure Controls

- Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

NIOSH = National Institute of Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

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

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	Aerosol	Appearance/Description	Aerosol
Color	Data lacking	Odor	Data lacking
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	Data lacking	Water Solubility	Negligible
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

- Heat, sparks, open flames. Incompatible materials.

10.5 Incompatible materials

- Strong oxidizing agents, acids, and alkalis.

10.6 Hazardous decomposition products

- On burning may release carbon dioxide and carbon monoxide.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

Components		
Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined) (< 70%)	64742-52-5	Acute Toxicity: Ingestion/Rat LD50 • >5000 mg/kg; Skin/Rabbit LD50 • >2000 mg/kg; Irritation: Skin/Rabbit • 500 mg • Severe irritation
Coke (petroleum), calcined (< 10%)	64743-05-1	Acute Toxicity: Inhalation/Rat LC50 • >30.7 mg/m ³ 6 Hour(s)
Heptane (< 20%)	142-82-5	Acute Toxicity: Inhalation/Rat LC50 • 103 g/m ³ 4 Hour(s)
Acetone (< 10%)	67-64-1	Acute Toxicity: Ingestion/Rat LD50 • 5800 mg/kg; Inhalation/Rat LC50 • 50100 mg/m ³ ; Irritation: Eye/Rabbit • 20 mg • Severe irritation; Skin/Rabbit • 395 mg-Open • Mild irritation; Reproductive: Inhalation/Rat TClO • 11000 ppm (6-19D preg); <i>Reproductive Effects: Specific Developmental Abnormalities: Other developmental abnormalities</i>
Butane (< 6%)	106-97-8	Acute Toxicity: Inhalation/Rat LC50 • 658 g/m ³ 4 Hour(s)

GHS Properties	Classification
Acute toxicity	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking

Aspiration Hazard	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Carcinogenicity	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Germ Cell Mutagenicity	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Skin corrosion/Irritation	EU/CLP • Skin Irritation 2 OSHA HCS 2012 • Skin Irritation 2
Skin sensitization	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
STOT-RE	EU/CLP • Specific Target Organ Toxicity Repeated Exposure 2 OSHA HCS 2012 • Specific Target Organ Toxicity Repeated Exposure 1
STOT-SE	EU/CLP • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects OSHA HCS 2012 • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects
Toxicity for Reproduction	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Respiratory sensitization	EU/CLP • Data lacking OSHA HCS 2012 • Data lacking
Serious eye damage/Irritation	EU/CLP • Data lacking OSHA HCS 2012 • Eye Irritation 2

Potential Health Effects

Inhalation

Acute (Immediate)

- May affect the central nervous system. Symptoms may include dizziness, drowsiness, lethargy, coma and death.

Chronic (Delayed)

- Repeated and prolonged inhalation may result in impaired lung function. Repeated or prolonged exposure may cause hyperactive reflexes, peripheral neuropathy, ataxia, personality changes, tremors, headaches, emotional liability, cognitive dysfunction and memory loss. Toluene abuse or sniffing may cause liver, kidney and central nervous system damage. Toluene may also cause sensitization to epinephrine or other adrenalin like agents.

Skin

Acute (Immediate)

- Causes skin irritation.

Chronic (Delayed)

- Contact may dry the skin prolonged contact may cause irritation. Solvent action can dry and defate the skin causing skin to crack, leading to dermatitis.

Eye

Acute (Immediate)

- Causes serious eye irritation.

Chronic (Delayed)

- No data available

Ingestion

Acute (Immediate)

- Under normal conditions of use, no health effects are expected.

Chronic (Delayed)

- No data available

Key to abbreviations

LC = Lethal Concentration

LD = Lethal Dose

TC = Toxic Concentration

Section 12 - Ecological Information

12.1 Toxicity

- This product contains a component that is potentially toxic to aquatic organisms and may have long lasting effects to the aquatic environment.

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	Consumer Commodity, ORM-D	NDA	NDA	NDA
TDG	NDA	Consumer Commodity, ORM-D	NDA	NDA	NDA
IMO/IMDG	UN1950	AEROSOLS	2.1	NDA	NDA
IATA/ICAO	UN1950	Aerosols	2.1	NDA	NDA

14.6 Special precautions for user

- None specified.

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

- Data lacking.

Section 15 - Regulatory Information

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

SARA Hazard Classifications

- Acute, Chronic, Fire, Pressure(Sudden Release of)

Inventory					
Component	CAS	Canada DSL	Canada NDSL	EU EINECS	EU ELNICS
Acetone	67-64-1	Yes	No	Yes	No
Butane	106-97-8	Yes	No	Yes	No
Coke (petroleum), calcined	64743-05-1	Yes	No	Yes	No
Heptane	142-82-5	Yes	No	Yes	No
Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	Yes	No	Yes	No
Propane	74-98-6	Yes	No	Yes	No

Canada

Labor

Canada - WHMIS - Classifications of Substances

• Acetone	67-64-1	B2, D2B
• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	Not Listed
• Heptane	142-82-5	B2, D2B
• Propane	74-98-6	A, B1
• Butane	106-97-8	A, B1
• Coke (petroleum), calcined	64743-05-1	Not Listed

Canada - WHMIS - Ingredient Disclosure List

• Acetone	67-64-1	1 %
• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	Not Listed
• Heptane	142-82-5	1 %
• Propane	74-98-6	Not Listed
• Butane	106-97-8	1 %
• Coke (petroleum), calcined	64743-05-1	Not Listed

Environment

Canada - 2004 NPRI (National Pollutant Release Inventory)

• Acetone	67-64-1	Not Listed
• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	Not Listed
• Heptane	142-82-5	Not Listed
• Propane	74-98-6	Part 5 Substance
• Butane	106-97-8	Not Listed
• Coke (petroleum), calcined	64743-05-1	Not Listed

Canada - 2005 NPRI (National Pollutant Release Inventory)

• Acetone	67-64-1	Not Listed
• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	Not Listed
• Heptane	142-82-5	Not Listed
• Propane	74-98-6	Part 5 Substance
• Butane	106-97-8	Not Listed
• Coke (petroleum), calcined	64743-05-1	Not Listed

Canada - CEPA - Greenhouse Gases Subject to Mandatory Reporting

• Acetone	67-64-1	Not Listed
• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	Not Listed

• Heptane	142-82-5	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Coke (petroleum), calcined	64743-05-1	Not Listed

Canada - CEPA - Priority Substances List

• Acetone	67-64-1	Not Listed
• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	Not Listed
• Heptane	142-82-5	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Coke (petroleum), calcined	64743-05-1	Not Listed

Canada - DWQ (Drinking Water Quality) - IMACs

• Acetone	67-64-1	Not Listed
• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	Not Listed
• Heptane	142-82-5	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Coke (petroleum), calcined	64743-05-1	Not Listed

Other**Canada - Accelerated Reduction/Elimination of Toxics (ARET)**

• Acetone	67-64-1	Not Listed
• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	Not Listed
• Heptane	142-82-5	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Coke (petroleum), calcined	64743-05-1	Not Listed

Canada New Brunswick**Environment****Canada - New Brunswick - Ozone Depleting Substances - Schedule A**

• Acetone	67-64-1	Not Listed
• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	Not Listed
• Heptane	142-82-5	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Coke (petroleum), calcined	64743-05-1	Not Listed

Canada - New Brunswick - Ozone Depleting Substances - Schedule B

• Acetone	67-64-1	Not Listed
• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	Not Listed
• Heptane	142-82-5	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Coke (petroleum), calcined	64743-05-1	Not Listed

Europe**Other****EU - Hazardous Substances Restricted or Prohibited in Electrical Equipment (2011/65/EU) (RoHS)**

• Acetone	67-64-1	Not Listed
• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	Not Listed

• Heptane	142-82-5	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Coke (petroleum), calcined	64743-05-1	Not Listed

Japan

Environment

Inventory - Japan - Industrial Safety and Health Law Substances (ISHL)

• Acetone	67-64-1	Not Listed
• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	Not Listed
• Heptane	142-82-5	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Coke (petroleum), calcined	64743-05-1	Not Listed

Other

Japan - Chemical Substance Control Law (CSCL) - Monitoring Chemical Substances

• Acetone	67-64-1	Not Listed
• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	Not Listed
• Heptane	142-82-5	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Coke (petroleum), calcined	64743-05-1	Not Listed

Japan - Poisonous and Deleterious Substances - Substances Not Considered Deleterious

• Acetone	67-64-1	Not Listed
• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	Not Listed
• Heptane	142-82-5	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Coke (petroleum), calcined	64743-05-1	Not Listed

Japan - Poisonous and Deleterious Substances - Substances Not Considered Poisonous

• Acetone	67-64-1	Not Listed
• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	Not Listed
• Heptane	142-82-5	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Coke (petroleum), calcined	64743-05-1	Not Listed

United States

Labor

U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

• Acetone	67-64-1	Not Listed
• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	Not Listed
• Heptane	142-82-5	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Coke (petroleum), calcined	64743-05-1	Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

• Acetone	67-64-1	Not Listed
• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	Not Listed

• Heptane	142-82-5	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Coke (petroleum), calcined	64743-05-1	Not Listed

Environment

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

• Acetone	67-64-1	Not Listed
• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	Not Listed
• Heptane	142-82-5	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Coke (petroleum), calcined	64743-05-1	Not Listed

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

• Acetone	67-64-1	5000 lb final RQ; 2270 kg final RQ
• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	Not Listed
• Heptane	142-82-5	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Coke (petroleum), calcined	64743-05-1	Not Listed

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

• Acetone	67-64-1	Not Listed
• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	Not Listed
• Heptane	142-82-5	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Coke (petroleum), calcined	64743-05-1	Not Listed

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

• Acetone	67-64-1	Not Listed
• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	Not Listed
• Heptane	142-82-5	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Coke (petroleum), calcined	64743-05-1	Not Listed

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

• Acetone	67-64-1	Not Listed
• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	Not Listed
• Heptane	142-82-5	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Coke (petroleum), calcined	64743-05-1	Not Listed

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

• Acetone	67-64-1	Not Listed
• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	Not Listed
• Heptane	142-82-5	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Coke (petroleum), calcined	64743-05-1	Not Listed

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

• Acetone	67-64-1	Not Listed
• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	Not Listed
• Heptane	142-82-5	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Coke (petroleum), calcined	64743-05-1	Not Listed

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

• Acetone	67-64-1	Not Listed
• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	Not Listed
• Heptane	142-82-5	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Coke (petroleum), calcined	64743-05-1	Not Listed

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

• Acetone	67-64-1	Not Listed
• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	Not Listed
• Heptane	142-82-5	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Coke (petroleum), calcined	64743-05-1	Not Listed

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

• Acetone	67-64-1	Not Listed
• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	Not Listed
• Heptane	142-82-5	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Coke (petroleum), calcined	64743-05-1	Not Listed

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

• Acetone	67-64-1	Not Listed
• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	Not Listed
• Heptane	142-82-5	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Coke (petroleum), calcined	64743-05-1	Not Listed

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

• Acetone	67-64-1	Not Listed
• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	Not Listed
• Heptane	142-82-5	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Coke (petroleum), calcined	64743-05-1	Not Listed

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

• Acetone	67-64-1	Not Listed
• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	Not Listed

• Heptane	142-82-5	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• Coke (petroleum), calcined	64743-05-1	Not Listed

United States - Rhode Island

Labor

U.S. - Rhode Island - Hazardous Substance List

• Acetone	67-64-1	Toxic; Flammable
• Hydrotreated heavy naphthenic distillates (petroleum) (Highly Refined)	64742-52-5	Not Listed
• Heptane	142-82-5	Toxic; Flammable
• Propane	74-98-6	Toxic; Flammable
• Butane	106-97-8	Toxic; Flammable
• Coke (petroleum), calcined	64743-05-1	Not Listed

15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

Section 16 - Other Information

Relevant Phrases (code & full text)

- H220 - Extremely flammable gas
- H225 - Highly flammable liquid and vapour
- H226 - Flammable liquid and vapour
- H280 - Contains gas under pressure; may explode if heated
- H304 - May be fatal if swallowed and enters airways
- H319 - Causes serious eye irritation
- H350 - May cause cancer.
- H372 - Causes damage to organs through prolonged or repeated exposure.
- H400 - Very toxic to aquatic life
- H410 - Very toxic to aquatic life with long lasting effects
- R11 - Highly flammable.
- R36 - Irritating to eyes.
- R38 - Irritating to skin.
- R45 - May cause cancer.
- R50 - Very toxic to aquatic organisms.
- R53 - May cause long-term adverse effects in the aquatic environment.
- R65 - Harmful: may cause lung damage if swallowed.

Last Revision Date

- 22/September/2014

Preparation Date

- 22/September/2014

Disclaimer/Statement of Liability

- The information contained herein is based on data available. However, no warranty is expressed or implied regarding the accuracy of the data or the results obtained from the use thereof. Because the information contained herein may be applied under conditions beyond our control, we assume no responsibility for its use.

Key to abbreviations

NDA = No data available