Safety Data Sheet

Section1:IdentificationoftheSubstance/MixtureandoftheCompany/Undertaking

1.1 Product identifier

Product Name | **SLIP Plate Penetrant Plus Aerosol**

Product Code | 45550

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

Relevant identified use(s) | Lubricants & Coatings

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 - (8am-5pm 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)

Section2:HazardsIdentification

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
EUH066

DSD/DPD | Extremely Flammable (F+)
Irritant (Xi)
Dangerous to the Environment (N)
R12, R38, R51, R53, R66

2.2 Label Elements

CLP

DANGER

Hazard statements | H222 - Extremely flammable aerosol

H315 - Causes skin irritation
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.
P264 - Wash thoroughly after handling.
P280 - Wear protective gloves .

Response | P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
P362 - Take off contaminated clothing and wash before reuse.
P321 - Specific treatment, see supplemental first aid information.
P332+P313 - If skin irritation occurs: Get medical advice/attention.

Storage/Disposal | P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50ºC/122ºF.

DSD/DPD

Risk phrases | R12 - Extremely flammable.
R38 - Irritating to skin.
R51 - Toxic to aquatic organisms.
R53 - May cause long-term adverse effects in the aquatic environment.
R66 - Repeated exposure may cause skin dryness or cracking.

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
Skin Irritation 2
Eye Irritation 2

2.2 Label elements

OSHA HCS 2012

DANGER

Hazard statements | Extremely flammable aerosol
Causes skin irritation
Causes serious eye irritation

Precautionary statements

Prevention | Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.
Do not spray on an open flame or other ignition source.
Pressurized container: Do not pierce or burn, even after use.
Wash thoroughly after handling.
Wear protective gloves and eye/face protection , .

Response | If on skin: Wash with plenty of water .
Take off contaminated clothing and wash before reuse.
Specific treatment, see supplemental first aid information.
If skin irritation occurs: Get medical advice/attention.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

Storage/Disposal | Protect from sunlight. Do not expose to temperatures exceeding 50ºC/122ºF.

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 - D2B

2.2 Label elements

WHMIS

| Flammable Aerosols - B5
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.

3.2 Mixtures

Composition					
Chemical Name	**Identifiers**	**%**	**LD50/LC50**	**Classifications According to Regulation/Directive**	**Comments**
Petroleum Oil (mist)	**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 **EU CLP:** Annex VI, Table 3.1: Carc. 1B, H350 **OSHA HCS 2012:** Skin Irrit. 2	NDA

Heptane	**CAS:**142-82-5 **EC Number:**205-563-8 **EU Index:**601-008-00-2	< 20%	Inhalation-Rat LC50 • 103 g/m³ 4 Hour(s)	**EU DSD/DPD:** Annex VI, Table 3.2: F; R11; Xn; R65; Xi; R38; R67; N; R50-53 **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:** Not Classified **EU CLP:** Not classified **OSHA HCS 2012:** Not classified	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/m³ 8 Hour (s)	**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
Propane	**CAS:**74-98-6 **EC Number:**200-827-9 **EU Index:**601-003-00-5	< 6%	NDA	**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
Butane	**CAS:**106-97-8 **EC Number:**203-448-7 **EU Index:**601-004-00-0	< 6%	Inhalation-Rat LC50 • 658 g/m³ 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

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

Section4-FirstAidMeasures

4.1 Description of first aid measures

Inhalation ▮ Move person to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. If signs/symptoms continue, get medical attention.

Skin ▮ Wash skin with soap and water. Wash contaminated clothing before reuse. 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.

Section5-FirefightingMeasures

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.

Section6-AccidentalReleaseMeasures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions | Ventilate enclosed areas. Do not walk through spilled material. Wear appropriate personal protective equipment, avoid direct contact. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

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, sewers, basements or confined areas.

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.

6.4 Reference to other sections

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

Section7-HandlingandStorage

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 >120º 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/m3 TWA	1000 ppm TWA; 1800 mg/m3 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. Follow best practice for site management and disposal of waste.

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	Liquid	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)	Not relevant.		
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		
Petroleum Oil (mist) (< 70%)	64742-52-5	**Irritation:** Skin-Rabbit • 500 mg • Severe irritation
Coke (petroleum), calcined (< 10%)	64743-05-1	**Acute Toxicity:** Inhalation-Rat LC50 • >30.7 mg/m³ 6 Hour(s)

Heptane (< 20%)	142-82-5	**Acute Toxicity:** Inhalation-Rat LC50 • 103 g/m³ 4 Hour(s)
Acetone (< 10%)	67-64-1	**Acute Toxicity:** Ingestion/Oral-Rat LD50 • 5800 mg/kg; Inhalation-Rat LC50 • 50100 mg/m³; **Irritation:** Eye-Rabbit • 20 mg • Severe irritation; Skin-Rabbit • 395 mg-Open • Mild irritation; **Reproductive:** Inhalation-Rat TCLo • 11000 ppm (6-19D preg); *Reproductive Effects:Specific Developmental Abnormalities*:**Other developmental abnormalities**
Butane (< 6%)	106-97-8	**Acute Toxicity:** Inhalation-Rat LC50 • 658 g/m³ 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** • Data lacking **OSHA HCS 2012** • Data lacking
STOT-SE	**EU/CLP** • Data lacking **OSHA HCS 2012** • Data lacking
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 cause irritation.

Chronic (Delayed) No data available

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

Section12-EcologicalInformation

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.

Section13-DisposalConsiderations

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.

Section14-TransportInformation

	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	UN1950	AEROSOLS, FLAMMABLE	2.1	NDA	NDA
IMO/IMDG	UN1950	AEROSOLS, FLAMMABLE	2.1	NDA	NDA
IATA/ICAO	UN1950	Aerosols, flammable	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.

Section15-RegulatoryInformation

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
Petroleum Oil (mist)	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
• Petroleum Oil (mist)	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 %
• Petroleum Oil (mist)	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 - CEPA - Priority Substances List

• Acetone	67-64-1	Not Listed
• Petroleum Oil (mist)	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
• Petroleum Oil (mist)	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
• Petroleum Oil (mist)	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
• Petroleum Oil (mist)	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
• Petroleum Oil (mist)	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
• Petroleum Oil (mist)	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
• Petroleum Oil (mist)	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
• Petroleum Oil (mist)	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
• Petroleum Oil (mist)	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
• Petroleum Oil (mist)	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
• Petroleum Oil (mist)	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
• Petroleum Oil (mist)	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
• Petroleum Oil (mist)	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
• Petroleum Oil (mist)	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
• Petroleum Oil (mist)	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
• Petroleum Oil (mist)	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
• Petroleum Oil (mist)	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
• Petroleum Oil (mist)	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
• Petroleum Oil (mist)	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
• Petroleum Oil (mist)	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
• Petroleum Oil (mist)	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

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out.

Section16-OtherInformation

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
H336 - May cause drowsiness or dizziness
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.
R45 - May cause cancer.
R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R50 - Very toxic to aquatic organisms.
R65 - Harmful: may cause lung damage if swallowed.
R67 - Vapours may cause drowsiness and dizziness.

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Key to abbreviations

NDA = No data available