

Safety Data Sheet

Material Name: PETROLEUM DISTILLATE 120

SDS ID: 00232139

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name

PETROLEUM DISTILLATE 120

Synonyms

Petro-Correction Oil; Petro-distillate; KP-120 Oil; Petroleum Oil (AWPA P-4); Hydrocarbon Solvent, Type A (AWPA P-9)

Product Use

Product uses include correction oil and diluent oil. Preparing solutions of oil-borne preservatives.

Restrictions on Use

None known.

Details of the supplier of the safety data sheet

KOPPERS INC.
436 Seventh Avenue
Pittsburgh, PA 15219-1800
Mfg Contact: 412-227-2001 (SDS Requests: 866-852-5239)

CHEMTREC: 800-424-9300 (Outside USA: +1 703-527-3887)

Emergencies: (Medical in USA): 877-737-9047

Emergencies: (Medical Outside of USA): 651-632-9269

E-mail: naorgmsds@koppers.com

Section 2 - HAZARDS IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200.

Acute Toxicity - Inhalation - Dust/Mist - Category 4

Skin Corrosion/Irritation - Category 2

Serious Eye Damage/Eye Irritation - Category 2A

Skin Sensitization - Category 1

Germ Cell Mutagenicity - Category 1B

Carcinogenicity - Category 1A

Reproductive Toxicity - Category 1B

Specific target organ toxicity - Single exposure - Category 1 (blood)

Specific target organ toxicity - Single exposure - Category 2 (eyes)

Specific target organ toxicity - Repeated exposure - Category 1 (blood, , eyes, , respiratory system, , liver, , nervous system)

Hazardous to the Aquatic Environment - Acute - Category 2

GHS Label Elements

Symbol(s)



Signal Word

Danger

Hazard Statement(s)



Safety Data Sheet

Material Name: PETROLEUM DISTILLATE 120

SDS ID: 00232139

Harmful if inhaled.
 Causes skin irritation.
 Causes serious eye irritation.
 May cause an allergic skin reaction.
 May cause genetic defects.
 May cause cancer.
 May damage fertility or the unborn child.
 Causes damage to organs. (blood)
 May cause damage to organs. (eyes)
 Causes damage to organs through prolonged or repeated exposure. (blood , eyes , respiratory system , liver , nervous system)
 Toxic to aquatic life.

Precautionary Statement(s)

Prevention

Do not breathe vapor or mist.
 Use only outdoors or in a well-ventilated area.
 Wash thoroughly after handling.
 Wear protective gloves/clothing and eye/face protection.
 Contaminated work clothing should not be allowed out of the workplace.
 Do not eat, drink or smoke when using this product.
 Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Avoid release to the environment.

Response

IF exposed or concerned: Get medical advice/attention.
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 Call a POISON CENTER or doctor/physician if you feel unwell.
 IF ON SKIN: Wash with plenty of soap and water.
 If skin irritation occurs: Get medical advice/attention.
 Take off contaminated clothing and wash before reuse.
 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

Store locked up.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Other Hazards

None known.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent
64741-59-9	Petroleum distillates, light catalytic cracked	100
-	The above listed complex substance contains the following constituents	-



Safety Data Sheet

Material Name: PETROLEUM DISTILLATE 120

SDS ID: 00232139

91-20-3	Naphthalene	4.9-18.6
85-01-8	Phenanthrene	3.8-8.3
90-12-0	1-Methylnaphthalene	2.8-5.8
129-00-0	Pyrene	1.6-3.9
83-32-9	Acenaphthene	1.1-3.3
95-13-6	Indene	0.1-3.1
120-12-7	Anthracene	1.0-2.9
132-64-9	Dibenzofuran	0.3-2.9
208-96-8	Acenaphthylene	0.5-2.7
92-52-4	Biphenyl	0.6-2.6
206-44-0	Fluoranthene	0.6-2.4
86-73-7	Fluorene	1.4-1.9
56-55-3	Benz[a]anthracene	0.23-1.41
91-22-5	Quinoline	0.2-1.3
119-65-3	Isoquinoline	0.1-1.1
218-01-9	Chrysene	0.2-0.9
106-44-5	P-CRESOL	0.1-0.8
108-39-4	M-CRESOL	0.1-0.8
105-67-9	2,4-Dimethylphenol	0.2-0.7
108-95-2	Phenol	0-0.7
86-74-8	9H-Carbazole	0.2-0.5
100-42-5	Styrene	0-0.3
95-48-7	O-CRESOL	0.1-0.3
95-47-6	o-Xylene	0-0.3
50-32-8	Benzo[a]pyrene	0.0-0.30
108-88-3	TOLUENE	0-0.3
71-43-2	Benzene	0-0.28



Safety Data Sheet

Material Name: PETROLEUM DISTILLATE 120

SDS ID: 00232139

271-89-6	Benzofuran	0-0.2
108-38-3	m-Xylene	0-0.2
100-47-0	Benzonitrile	0-0.2
207-08-9	Benzo(k)fluoranthene	0-0.16
205-99-2	Benzo(b)fluoranthene	0-0.12
191-24-2	Benzo(ghi)perylene	0-0.1
53-70-3	Dibenzo(a,h)anthracene	0-0.1
205-82-3	Benzo(j)fluoranthene	0-0.1
108-67-8	1,3,5-Trimethylbenzene	0-0.1

Component Related Regulatory Information

This product may be regulated, have exposure limits or other information identified as the following: Aromatic hydrocarbons, polycyclic (130489-29-2).

Section 4 - FIRST AID MEASURES

Inhalation

If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.

Skin

Take off immediately all contaminated clothing. Wash with plenty of soap and water. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.

Eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Then get immediate medical attention.

Ingestion

Do NOT induce vomiting. If vomiting occurs, keep head lower than hips to help prevent aspiration. Do not give anything by mouth to unconscious or convulsive person. Get medical attention.

Most Important Symptoms/Effects

Acute

harmful if inhaled, skin irritation, eye irritation, allergic reactions, blood damage, eye damage

Delayed

allergic reactions, mutagenic effects, reproductive effects: blood damage, eye damage, respiratory system damage, liver damage, nervous system damage, lung cancer, skin cancer, blood cancers, nasal cancer

Indication of any immediate medical attention and special treatment needed

Treat symptomatically and supportively.

Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

regular dry chemical, carbon dioxide, regular foam, water spray



Safety Data Sheet

Material Name: PETROLEUM DISTILLATE 120

SDS ID: 00232139

Unsuitable Extinguishing Media

Do not scatter spilled material with high-pressure water streams.

Special Hazards Arising from the Chemical

Vapor/air mixtures are explosive. Vapors or gases may ignite at distant ignition sources and flash back. Mists or sprays may be flammable at temperatures below the flash point. Contact with heat may generate toxic and/or flammable gases. Sealed containers may rupture or explode if exposed to heat.

Hazardous Combustion Products

carbon monoxide, carbon dioxide, oxides of nitrogen

Fire Fighting Measures

Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. Flood with fine water spray. Do not scatter spilled material with high-pressure water streams. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

Special Protective Equipment and Precautions for Firefighters

Wear full protective firefighting gear including self-contained breathing apparatus (SCBA) for protection against possible exposure.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, see Section 8. Avoid release to the environment.

Methods and Materials for Containment and Cleaning Up

Stop leak if possible without personal risk. Do not touch or walk through spilled material. Ventilate the area. Small spills: Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal. Large spills: Completely contain spilled material with dikes, sandbags, etc. Collect spilled material in appropriate container for disposal. In Canada, report releases to provincial authorities, municipal authorities, or both, as required. Due to the concentration of Benzo(a)pyrene and the CERCLA (40 CFR 302.4) reportable quantity of 1 pound, the release of 38 gallons (333 pounds) of this product requires National Response Center notification. Keep out of water supplies and sewers.

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling

Do not breathe vapor or mist. Wash exposed areas thoroughly with soap and water, or a waterless hand cleaner, after skin contact and before eating, drinking, using tobacco products, or restrooms. Do not eat, drink, or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid prolonged or repeated contact with skin or eyes. Keep away from all ignition sources. Contaminated clothing should be removed and laundered before reuse. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/clothing and eye/face protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Conditions for Safe Storage, Including any Incompatibilities

Store locked up.

Store and handle in accordance with all current regulations and standards. Store in a cool, dry place. Keep container properly labeled and tightly closed. Long term heated storage may evolve dangerous gases. Keep away from heat, sparks and flame. Notify State Emergency Response Commission for storage or use at amounts greater than or equal to the TPQ (U.S. EPA SARA Section 302). SARA Section 303 requires facilities storing a material with a TPQ to participate in local emergency response planning (U.S. EPA 40 CFR 355 Part B). Keep separated from incompatible substances.

Incompatible Materials

acids, alkalis, oxidizing materials, reducing agents



Safety Data Sheet

Material Name: PETROLEUM DISTILLATE 120

SDS ID: 00232139

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

Petroleum distillates, light catalytic cracked	64741-59-9
ACGIH:	0.2 mg/m3 TWA as benzene-soluble aerosol (related to Pitch, coal tar, high-temperature)
OSHA (US):	0.2 mg/m3 TWA (benzene soluble fraction) (related to Pitch, coal tar, high-temperature)
Naphthalene	91-20-3
ACGIH:	10 ppm TWA
	Skin - potential significant contribution to overall exposure by the cutaneous route
OSHA (US):	10 ppm TWA ; 50 mg/m3 TWA
Biphenyl	92-52-4
OSHA (US):	0.2 ppm TWA ; 1 mg/m3 TWA
Benzene	71-43-2
ACGIH:	0.5 ppm TWA
	2.5 ppm STEL
	Skin - potential significant contribution to overall exposure by the cutaneous route
OSHA (US):	10 ppm TWA applies to industry segments exempt from the benzene standard at 29 CFR 1910.1028 ; 1 ppm TWA
	5 ppm STEL (See 29 CFR 1910.1028) 15 min ; 0.5 ppm Action Level ; 1 ppm TWA
	5 ppm STEL (see 29 CFR 1910.1028)
	25 ppm Ceiling
Benzonitrile	100-47-0
NIOSH:	14 ppm IDLH

ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)

Petroleum distillates, light catalytic cracked (64741-59-9)

2.5 µg/l Medium: urine Time: end of shift at end of workweek Parameter: 1-Hydroxypyrene with hydrolysis (background); Medium: urine Time: end of shift at end of workweek Parameter: 3-Hydroxybenzo(a)pyrene with hydrolysis (nonquantitative) (related to Polycyclic aromatic hydrocarbons)



Safety Data Sheet

Material Name: PETROLEUM DISTILLATE 120

SDS ID: 00232139

Naphthalene (91-20-3)

Time: end of shift Parameter: 1-Naphthol with hydrolysis plus 2-Naphthol with hydrolysis (nonquantitative, nonspecific)

Benzene (71-43-2)

25 µg/g creatinine Medium: urine Time: end of shift Parameter: S-Phenylmercapturic acid (background); 500 µg/g creatinine Medium: urine Time: end of shift Parameter: t,t-Muconic acid (background)

Engineering Controls

Ensure adequate ventilation. Ensure compliance with applicable exposure limits.

Individual Protection Measures, such as Personal Protective Equipment

Eye/face protection

ANSI Z87.1-1989 approved safety glasses with side shields. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Skin Protection

Wear appropriate clothing. Use protective skin cream on exposed skin before and during work shift. Remove any chemical soaked clothing immediately.

Respiratory Protection

If the applicable TLVs and/or PELs are exceeded use NIOSH-approved air-purifying cartridge respirators for organic vapors.

Glove Recommendations

Wear appropriate gloves.

Protective Materials

chemical resistant material

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	orange to brown semi-liquid	Physical State	liquid
Odor	Not available	Color	orange to brown
Odor Threshold	Not available	pH	Not available
Melting Point	Not available	Boiling Point	Not available
Boiling Point Range	Not available	Freezing point	Not available
Evaporation Rate	Not available	Flammability (solid, gas)	Not applicable
Autoignition Temperature	Not available	Flash Point	>225 °F
Lower Explosive Limit	Not available	Decomposition temperature	Not available
Upper Explosive Limit	Not available	Vapor Pressure	0.0312 psia @ 93.3 °C
Vapor Density (air=1)	Not available	Specific Gravity (water=1)	1 - 1.046
Water Solubility	(Insoluble)	Partition coefficient: n-octanol/water	Not available
Viscosity	Not available	Kinematic viscosity	Not available



Safety Data Sheet

Material Name: PETROLEUM DISTILLATE 120

SDS ID: 00232139

Solubility (Other)	Not available	Density	Not available
Physical Form	Liquid	Molecular Weight	Not available
OSHA Flammability Category	4		

Other Information

None known.

Section 10 - STABILITY AND REACTIVITY

Reactivity

No reactivity hazard is expected.

Chemical Stability

Stable at normal temperatures and pressure.

Possibility of Hazardous Reactions

Will not polymerize.

Conditions to Avoid

Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

Incompatible Materials

Acids, alkalis, oxidizing materials, reducing agents

Hazardous decomposition products

carbon monoxide, carbon dioxide, oxides of nitrogen

Section 11 - TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation

blood disorders, eye damage, liver damage, respiratory system damage, nervous system damage, nasal cancer, lung cancer

Skin Contact

irritation, allergic reactions, eye damage, skin cancer

Eye Contact

irritation, eye damage

Ingestion

blood disorders, eye damage, liver damage, Reproductive Effects, blood cancers

Acute and Chronic Toxicity

Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

Petroleum distillates, light catalytic cracked (64741-59-9)

Oral LD50 Rat 6790 - 7180 mg/kg

Dermal LD50 Rabbit >2000 mg/kg (no deaths occurred)

Inhalation LC50 Rat 5.4 g/L 4 h

m-Xylene (108-38-3)

Dermal LD50 Rabbit 12.18 g/kg

Inhalation LC50 Rat 5984 ppm 6 h



Safety Data Sheet

Material Name: PETROLEUM DISTILLATE 120

SDS ID: 00232139

Product Toxicity Data

Acute Toxicity Estimate

Dermal	>2000 mg/kg
Inhalation - Dust and Mist	3.4 mg/l
Oral	3200 mg/kg

Immediate Effects

harmful if inhaled. skin irritation. eye irritation. allergic reactions. blood damage. eye damage.

Delayed Effects

allergic reactions, mutagenic effects, reproductive effects, blood damage, eye damage, respiratory system damage, liver damage, nervous system damage, skin cancer, lung cancer, blood cancers, nasal cancer

Irritation/Corrosivity Data

skin irritation, eye irritation

Respiratory Sensitization

No data available.

Dermal Sensitization

Component data indicate the substance is sensitizing.

Component Carcinogenicity

Petroleum distillates, light catalytic cracked	64741-59-9
ACGIH:	A1 - Confirmed Human Carcinogen (related to Pitch, coal tar, high-temperature)
IARC:	Monograph 100F [2012] ; Supplement 7 [1987] ; Monograph 35 [1985] (related to Pitch, coal tar, high-temperature) (Group 1 (carcinogenic to humans))
NTP:	Known Human Carcinogen (related to Pitch, coal tar, high-temperature)
NIOSH:	potential occupational carcinogen (related to Pitch, coal tar, high-temperature)

Germ Cell Mutagenicity

Available data characterizes this substance as mutagenic.

Tumorigenic Data

No data available

Reproductive Toxicity

Available data characterizes this substance as a reproductive hazard.

Specific Target Organ Toxicity - Single Exposure

blood, eyes

Specific Target Organ Toxicity - Repeated Exposure

blood, eyes, respiratory system, liver, nervous system

Aspiration hazard

No data available.



Safety Data Sheet

Material Name: PETROLEUM DISTILLATE 120

SDS ID: 00232139

Medical Conditions Aggravated by Exposure

respiratory disorders, skin disorders and allergies, central nervous system disorders (i.e. headache, drowsiness, dizziness, loss of coordination) metabolic disorders

Additional Data

High incidences of benign and malignant skin tumors have been reported in mouse skin application testing and IARC reports there is sufficient evidence for the carcinogenicity in animals of light catalytically cracked distillates. IARC determined there is sufficient evidence for carcinogenicity in experimental animals of light and heavy vacuum distillates, of light and heavy catalytically cracked distillates and of cracked residues (including heavy thermocracked distillates/residues) from the refining of crude oil. In addition to containing information about the product as a whole, this data sheet also contains information about individual components of the product. Information of this nature may not have been derived from studies or data relating to this product and/or may have been derived from studies or data that did not involve human exposure and involved animal exposure only. Some polycyclic aromatic hydrocarbons (PAHs), found in coal tar complex substances, have been reported to cause lung and skin cancer in humans under conditions of poor personal hygiene, prolonged/repeated contact, and exposure to sunlight. The National Toxicology Program (NTP) and IARC have independently classified various PAH compounds present in coal tar substances as reasonably anticipated to be human carcinogens (NTP), probably carcinogenic to humans (IARC Group 2A), possibly carcinogenic to humans (IARC Group 2B), and not classifiable as to carcinogenicity to humans (IARC Group 3). The cancers reported in the studies upon which IARC based its conclusions involved lung, skin, liver, stomach, kidney and blood cancers in animals. Based on the results of animal experiments PAHs may cause injury to the liver, kidneys, lungs, blood and lymph systems. Some PAH's have also been associated with impaired fertility, heritable genetic damage and birth defects in mice.

Section 12 - ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic life.

Component Analysis - Aquatic Toxicity

Petroleum distillates, light catalytic cracked	64741-59-9
Fish:	LC50 96 h Brachydanio rerio 7.3 mg/L [semi-static]

Persistence and Degradability

Estimated to have a slow rate of biodegradation.

Bioaccumulative Potential

Similar materials were shown to bioaccumulate in tissues of aquatic organisms.

Mobility

No information available for the product.

Other Toxicity

This material floats on water. Potentially toxic to freshwater and saltwater ecosystems.

Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose in accordance with all applicable regulations. Based on the results of the Toxicity Characteristic Leaching Procedure (TCLP): Benzene - D018 (toxicity \geq 0.5 ppm). Cresols - D026 (toxicity \geq 200 ppm).

Component Waste Numbers

The U.S. EPA has not published waste numbers for this product's components.



Safety Data Sheet

Material Name: PETROLEUM DISTILLATE 120

SDS ID: 00232139

Section 14 - TRANSPORT INFORMATION

US DOT Information:

Marine pollutant

Further information: Not applicable

IATA Information:

Marine pollutant

Further information: Not applicable

TDG Information:

Marine pollutant

Further information: Not applicable

International Bulk Chemical Code

This material does not contain any chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.

Further information

This material is classified as an oil under 49 CFR Part 130 when transported in a container of 3,500 gallon capacity or greater., See 49 CFR Part 130 for oil spill prevention and response plan requirements for truck and rail shipments.

Section 15 - REGULATORY INFORMATION

U.S. Federal Regulations

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

Naphthalene	91-20-3
SARA 313:	0.1 % de minimis concentration
CERCLA:	100 lb final RQ ; 45.4 kg final RQ
Phenanthrene	85-01-8
SARA 313:	1 % de minimis concentration
CERCLA:	5000 lb final RQ ; 2270 kg final RQ
Pyrene	129-00-0
SARA 302:	1000 lb lower TPQ ; 10000 lb upper TPQ
CERCLA:	5000 lb final RQ ; 2270 kg final RQ
SARA 304:	5000 lb EPCRA RQ
Acenaphthene	83-32-9
CERCLA:	100 lb final RQ ; 45.4 kg final RQ
Anthracene	120-12-7
SARA 313:	1 % de minimis concentration



Safety Data Sheet

Material Name: PETROLEUM DISTILLATE 120

SDS ID: 00232139

CERCLA:	5000 lb final RQ ; 2270 kg final RQ
Dibenzofuran	132-64-9
SARA 313:	1 % de minimis concentration
CERCLA:	100 lb final RQ ; 45.4 kg final RQ
Acenaphthylene	208-96-8
CERCLA:	5000 lb final RQ ; 2270 kg final RQ
Biphenyl	92-52-4
SARA 313:	1 % de minimis concentration
CERCLA:	100 lb final RQ ; 45.4 kg final RQ
Fluoranthene	206-44-0
SARA 313:	1 % Supplier notification limit
CERCLA:	100 lb final RQ ; 45.4 kg final RQ
Fluorene	86-73-7
CERCLA:	5000 lb final RQ ; 2270 kg final RQ
Benz[a]anthracene	56-55-3
SARA 313:	0.1 % Supplier notification limit
CERCLA:	10 lb final RQ ; 4.54 kg final RQ
Quinoline	91-22-5
SARA 313:	1 % de minimis concentration
CERCLA:	5000 lb final RQ ; 2270 kg final RQ
Chrysene	218-01-9
SARA 313:	1 % Supplier notification limit
CERCLA:	100 lb final RQ ; 45.4 kg final RQ
P-CRESOL	106-44-5
SARA 313:	1 % de minimis concentration
CERCLA:	100 lb final RQ ; 45.4 kg final RQ
M-CRESOL	108-39-4



Safety Data Sheet

Material Name: PETROLEUM DISTILLATE 120

SDS ID: 00232139

SARA 313:	1 % de minimis concentration
CERCLA:	100 lb final RQ ; 45.4 kg final RQ
2,4-Dimethylphenol	105-67-9
SARA 313:	1 % de minimis concentration
CERCLA:	100 lb final RQ ; 45.4 kg final RQ
Phenol	108-95-2
SARA 302:	500 lb lower TPQ ; 10000 lb upper TPQ
SARA 313:	1 % de minimis concentration
CERCLA:	1000 lb final RQ ; 454 kg final RQ
SARA 304:	1000 lb EPCRA RQ
Styrene	100-42-5
SARA 313:	0.1 % de minimis concentration
CERCLA:	1000 lb final RQ ; 454 kg final RQ
O-CRESOL	95-48-7
SARA 302:	1000 lb lower TPQ ; 10000 lb upper TPQ
SARA 313:	1 % de minimis concentration
CERCLA:	100 lb final RQ ; 45.4 kg final RQ
SARA 304:	100 lb EPCRA RQ
o-Xylene	95-47-6
SARA 313:	1 % de minimis concentration
CERCLA:	1000 lb final RQ ; 454 kg final RQ
Benzo[a]pyrene	50-32-8
SARA 313:	0.1 % Supplier notification limit
CERCLA:	1 lb final RQ ; 0.454 kg final RQ
TOLUENE	108-88-3
SARA 313:	1 % de minimis concentration
CERCLA:	1000 lb final RQ ; 454 kg final RQ



Safety Data Sheet

Material Name: PETROLEUM DISTILLATE 120

SDS ID: 00232139

Benzene	71-43-2
SARA 313:	0.1 % de minimis concentration
CERCLA:	10 lb final RQ (received an adjusted RQ of 10 lbs based on potential carcinogenicity in an August 14, 1989 final rule); 4.54 kg final RQ (received an adjusted RQ of 10 lbs based on potential carcinogenicity in an August 14, 1989 final rule)
m-Xylene	108-38-3
SARA 313:	1 % de minimis concentration
CERCLA:	1000 lb final RQ ; 454 kg final RQ
Benzonitrile	100-47-0
CERCLA:	5000 lb final RQ ; 2270 kg final RQ
Benzo(k)fluoranthene	207-08-9
SARA 313:	0.1 % Supplier notification limit
CERCLA:	5000 lb final RQ ; 2270 kg final RQ
Benzo(b)fluoranthene	205-99-2
SARA 313:	0.1 % Supplier notification limit
CERCLA:	1 lb final RQ ; 0.454 kg final RQ
Benzo(ghi)perylene	191-24-2
SARA 313:	1 % Supplier notification limit
CERCLA:	5000 lb final RQ ; 2270 kg final RQ
Dibenzo(a,h)anthracene	53-70-3
SARA 313:	0.1 % Supplier notification limit
CERCLA:	1 lb final RQ ; 0.454 kg final RQ
Benzo(j)fluoranthene	205-82-3
SARA 313:	0.1 % Supplier notification limit

SARA Section 311/312 (40 CFR 370 Subparts B and C) reporting categories

Carcinogenicity; Reproductive Toxicity; Skin Corrosion/Irritation; Respiratory/Skin Sensitization; Serious Eye Damage/Eye Irritation; Specific Target Organ Toxicity; Germ Cell Mutagenicity

U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA
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Safety Data Sheet

Material Name: PETROLEUM DISTILLATE 120

SDS ID: 00232139

Petroleum distillates, light catalytic cracked	64741-59-9	Yes	Yes	Yes	Yes	Yes
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California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)



WARNING

This product can expose you to chemicals including Naphthalene, Benz[a]anthracene, Quinoline, Chrysene, Styrene, Benzo[a]pyrene, Benzene, Benzo(k)fluoranthene, Benzo(b)fluoranthene, Dibenzo(a,h)anthracene, Benzo(j)fluoranthene, which are known to the State of California to cause cancer and TOLUENE, Benzene, which are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Canada Regulations

Canadian WHMIS Ingredient Disclosure List (IDL)

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL

Petroleum distillates, light catalytic cracked	64741-59-9
	0.1 % (related to Pitch, coal tar, high-temperature)
Naphthalene	91-20-3
	1 %
Phenanthrene	85-01-8
	1 %
Pyrene	129-00-0
	1 %
Acenaphthene	83-32-9
	1 %
Indene	95-13-6
	1 %
Anthracene	120-12-7
	1 %
Biphenyl	92-52-4
	1 %



Safety Data Sheet

Material Name: PETROLEUM DISTILLATE 120

SDS ID: 00232139

Fluoranthene	206-44-0
	1 %
Benz[a]anthracene	56-55-3
	0.1 %
Quinoline	91-22-5
	1 %
Chrysene	218-01-9
	0.1 %
Styrene	100-42-5
	0.1 %
Benzo[a]pyrene	50-32-8
	0.1 %
Benzene	71-43-2
	0.1 %
Benzonitrile	100-47-0
	1 %
Benzo(b)fluoranthene	205-99-2
	0.1 %
Dibenzo(a,h)anthracene	53-70-3
	0.1 %
1,3,5-Trimethylbenzene	108-67-8
	0.1 %

WHMIS Classification

D2A , D2B

Component Analysis - Inventory

Petroleum distillates, light catalytic cracked (64741-59-9)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI -	KR KECI -	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
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Safety Data Sheet

Material Name: PETROLEUM DISTILLATE 120

SDS ID: 00232139

								Annex 1	Annex 2					
Yes	DSL	EIN	Yes	Yes	No	No	Yes	No	No	Yes	No	Yes	Yes	Yes

Naphthalene (91-20-3)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes

Phenanthrene (85-01-8)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes

Pyrene (129-00-0)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes

Acenaphthene (83-32-9)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes	Yes

Indene (95-13-6)



Safety Data Sheet

Material Name: PETROLEUM DISTILLATE 120

SDS ID: 00232139

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes

Anthracene (120-12-7)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes

Dibenzofuran (132-64-9)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	Yes	Yes	No	Yes	No	Yes	Yes	No	Yes	Yes

Acenaphthylene (208-96-8)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	NSL	EIN	No	Yes	Yes	Yes	No	No	No	No	Yes	Yes	Yes	Yes

Biphenyl (92-52-4)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes



Safety Data Sheet

Material Name: PETROLEUM DISTILLATE 120

SDS ID: 00232139

Fluoranthene (206-44-0)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	NSL	EIN	Yes	No	Yes	Yes	No	No	No	Yes	Yes	No	Yes	Yes

Fluorene (86-73-7)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	Yes	Yes	No	Yes	No	Yes	Yes	No	Yes	Yes

Benz[a]anthracene (56-55-3)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	NSL	EIN	No	No	No	No	No	No	No	Yes	Yes	No	Yes	Yes

Quinoline (91-22-5)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes

Chrysene (218-01-9)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	No	No	No	Yes	No	No	No	Yes	No	Yes	Yes



Safety Data Sheet

Material Name: **PETROLEUM DISTILLATE 120**

SDS ID: **00232139**

P-CRESOL (106-44-5)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes

M-CRESOL (108-39-4)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes

2,4-Dimethylphenol (105-67-9)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	NSL	EIN	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes

Phenol (108-95-2)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes

Styrene (100-42-5)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
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Safety Data Sheet

Material Name: PETROLEUM DISTILLATE 120

SDS ID: 00232139

Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes
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O-CRESOL (95-48-7)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes

o-Xylene (95-47-6)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes

Benzo[a]pyrene (50-32-8)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	No	Yes	No	No	Yes	No	No	Yes	Yes	Yes	Yes	Yes

TOLUENE (108-88-3)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes

Benzene (71-43-2)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI -	KR KECI -	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
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Safety Data Sheet

Material Name: PETROLEUM DISTILLATE 120

SDS ID: 00232139

							Annex 1	Annex 2						
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes

m-Xylene (108-38-3)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes

Benzonitrile (100-47-0)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes

Benzo(k)fluoranthene (207-08-9)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
No	No	EIN	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes

Benzo(b)fluoranthene (205-99-2)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
No	No	EIN	No	No	No	No	No	No	No	No	Yes	No	Yes	Yes

Benzo(ghi)perylene (191-24-2)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI -	KR KECI -	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
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Safety Data Sheet

Material Name: PETROLEUM DISTILLATE 120

SDS ID: 00232139

							Annex 1	Annex 2							
No	No	EIN	No	No	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes

Dibenzo(a,h)anthracene (53-70-3)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	NSL	EIN	No	No	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes

Benzo(j)fluoranthene (205-82-3)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
No	No	EIN	No	No	No	No	No	No	No	No	No	No	Yes	Yes

1,3,5-Trimethylbenzene (108-67-8)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes

U.S. Inventory (TSCA)

Listed on inventory.

Section 16 - OTHER INFORMATION

NFPA Ratings

Health: 2 Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Summary of Changes

Updated: 7/20/2018; MSDS SUMMARY OF CHANGES: SECTION 15 - CA Proposition 65

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CA/MA/MN/NJ/PA - California/Massachusetts/Minnesota/New Jersey/Pennsylvania*; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CFR - Code of Federal Regulations (US); CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive;



Safety Data Sheet

Material Name: PETROLEUM DISTILLATE 120

SDS ID: 00232139

DSL - Domestic Substances List; EC – European Commission; EEC - European Economic Community; EIN - European Inventory of (Existing Commercial Chemical Substances); EINECS - European Inventory of Existing Commercial Chemical Substances; ENCS - Japan Existing and New Chemical Substance Inventory; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; F - Background (for Venezuela Biological Exposure Indices); IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; ISHL - Japan Industrial Safety and Health Law; IUCLID - International Uniform Chemical Information Database; JP - Japan; Kow - Octanol/water partition coefficient; KR KECI Annex 1 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL); KR KECI Annex 2 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL) , KR - Korea; LD50/LC50 - Lethal Dose/ Lethal Concentration; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; MX – Mexico; Ne- Non-specific; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; Nq - Non-quantitative; NSL – Non-Domestic Substance List (Canada); NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PEL- Permissible Exposure Limit; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; Sc - Semi-quantitative; STEL - Short-term Exposure Limit; TCCA – Korea Toxic Chemicals Control Act; TDG - Transportation of Dangerous Goods; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act; TW – Taiwan; TWA - Time Weighted Average; UEL - Upper Explosive Limit; UN/NA - United Nations /North American; US - United States; VLE - Exposure Limit Value (Mexico); VN (Draft) - Vietnam (Draft); WHMIS - Workplace Hazardous Materials Information System (Canada).

Other Information

Disclaimer:

The information set forth in this Safety Data Sheet does not purport to be all-inclusive and should be used only as a guide. While the information and recommendations set forth herein are believed to be accurate, the company makes no warranty regarding such information and recommendations and disclaims all liability from reliance thereon.