



FUEL OIL – NON COMBUSTIBLE
Safety Data Sheet

SDS ID: 820033

***** Section 1 - Identification *****

Product Identifier

FUEL OIL - NON COMBUSTIBLE

Product Code

Prefix 06

Recommended Use

Fuel oil for industrial boilers. If this product is used in combination with other products, refer to the Material Safety Data Sheet for those products.

Restrictions on Use

THIS PRODUCT IS NOT FOR SALE OR USE IN THE STATE OF CALIFORNIA

Manufacturer Information

Kleen Performance Products
42 Longwater Drive
Norwell, Ma 02061-9149

Phone: 1-800-669-5740
www.safety-kleen.com

Emergency # 1-800-468-1760

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October 11, 2007

***** Section 2 - Hazard(s) Identification *****

Classification in Accordance with 29 CFR 1910.1200.

Acute Toxicity (Oral), (Dermal), (Inhalation) Category 4
Skin Corrosion / Irritation, Category 2
Serious Eye Damage/Eye Irritation, Category 2A
Respiratory sensitizer, Category 1A
Skin sensitizer, Category 1A
Germ Cell Mutagenicity, Category 1B
Carcinogenicity, Category 1A
Toxic to Reproduction, Category 1A
Specific Target Organ Toxicity - Single Exposure, Category 1, 2, and 3
Specific Target Organ Toxicity - Repeated Exposure, Category 1 and 2

GHS LABEL ELEMENTS

Symbol(s)



Signal Word

DANGER!

Hazard Statement(s)

Toxic if swallowed
Harmful in contact with skin or inhaled
Causes skin irritation and serious eye irritation
May cause allergic or asthmatic symptoms or breathing difficulties if inhaled
May cause allergic skin reaction, genetic defects, cancer, respiratory irritation, and drowsiness and dizziness
May damage fertility or the unborn child

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Causes damage to hematopoietic system, circulatory system, digestive system, kidneys, liver, nervous system, respiratory system, skin, lungs, blood, and eyes

May cause damage to systemic toxicity and lungs

Causes damage to hematopoietic system, circulatory system, digestive system, kidneys, liver, nervous system, respiratory system, skin, lungs, cardiovascular system, central nervous system, peripheral nervous system, immune system, and blood through prolonged or repeated exposure

May cause damage to cardiovascular system through prolonged or repeated exposure.

Precautionary Statement(s)

Prevention

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

Response

IF exposed or concerned: Get medical advice/attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it 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. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Specific treatment is urgent, see first aid section of Safety Data Sheet.

Storage

Store locked up.

Disposal

Dispose in accordance with all applicable regulations.

Hazard(s) Not Otherwise Classified

None.

*** Section 3 - Composition / Information on Ingredients ***

CAS	Component	Percent
Not Available	Used oil	65-100
Not Available	Water/Solids	0-25
Not Available	Hydrocarbon Solvents	0-10
Not Available	Metals	0-1.5
Not Available	Polynuclear Aromatics	0-0.5

Component Related Regulatory Information

This product may be regulated, have exposure limits or other information identified as the following: Gasoline, Distillates (petroleum), straight-run middle, Jet fuel, Oil mist, mineral, Lead, Iron, Zinc, Copper, Chromium, Arsenic, Nickel, Naphthalene, Fluoranthene, Phenanthrene, Pyrene.

*** Section 4 - First Aid Measures ***

Description of Necessary Measures

Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

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Skin

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

Eyes

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.

Ingestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Specific treatment is urgent, see first aid section of Safety Data Sheet.

Most Important Symptoms/Effects

Acute

May cause allergic skin reactions, respiratory tract irritation, skin irritation, eye irritation, asthma, central nervous system depression, circulatory system damage, digestive disorder, kidney damage, liver damage, nervous system damage, respiratory system damage, skin damage, lung damage, blood damage, eye damage, systemic toxicity.

Delayed

May cause cancer, mutagenic effects, allergic reactions, reproductive effects, circulatory system damage, digestive disorder, kidney damage, liver damage, nervous system damage, respiratory system damage, skin damage, lung damage, cardiovascular system damage, central nervous system damage, blood damage, immune system disorders, peripheral nerve damage.

Indication of Immediate Medical Attention and Special Treatment Needed, If Needed

Treat symptomatically and supportively. Treatment may vary with condition of victim and specifics of incident. Call 1-800-468-1760 for additional information.

*** Section 5 - Fire-Fighting Measures ***

Suitable Extinguishing Media

Carbon dioxide, regular foam, dry chemical, water spray, or water fog.

Unsuitable Extinguishing Media

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

Specific Hazards Arising from the Chemical

Heated containers may rupture or be thrown into the air.

Hazardous Combustion Products

Decomposition and combustion materials may be toxic., Burning may produce phosgene, oxides of carbon, oxides of nitrogen, unidentified organic compounds, oxides of zinc, oxides of chromium, oxides of iron, oxides of lead, and nickel compounds.

Special Protective Equipment and Precautions for Firefighters

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

Fire Fighting Measures

Keep storage containers cool with water spray. Move container from fire area if it can be done without risk. Vapor explosion hazard indoors, outdoors, or in sewers. Vapors may travel to ignition source and flashback. Vapors will spread along the ground and collect in low or confined areas. Run-off to sewer may create a fire hazard. Heated containers may rupture or be thrown into the air. "Empty" containers may retain residue and can be dangerous. Product is not sensitive to mechanical impact or static discharge.

*** 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.

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Methods and Materials for Containment and Clean Up

Remove all ignition sources. Do not touch or walk through spilled product. Stop leak if you can do it without risk. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Ventilate area and avoid breathing vapor or mist. A vapor suppressing foam may be used to reduce vapors. Contain spill away from surface water and sewers. Contain spill as a liquid for possible recovery, or sorb with compatible sorbent material and shovel with a clean, sparkproof tool into a sealable container for disposal.

Additionally, for large spills: Water spray may reduce vapor, but may not prevent ignition in closed spaces. Dike far ahead of liquid spill for collection and later disposal.

*** Section 7 - Handling and Storage ***

Precautions for Safe Handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, sparks, and flames. Where flammable mixtures may be present, equipment safe for such locations should be used. Use clean tools and explosion-proof equipment. When transferring large volumes of product, metal containers, including trucks and tank cars, should be grounded and bonded. Do not breathe vapor or mist. Use only outdoors or in a well-ventilated area. In case of inadequate ventilation wear respiratory protection. Do not eat, drink, or smoke when using this product. Avoid contact with eyes, skin and clothing. Wear protective gloves/clothing and eye/face protection. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

Conditions for Safe Storage, Including Any Incompatibilities

Keep container tightly closed when not in use and during transport. Store containers in a cool, dry place. Do not pressurize, cut, weld, braze, solder, drill, or grind containers. Keep containers away from heat, flame, sparks, static electricity, or other sources of ignition. Empty product containers may retain product residue and can be dangerous. Store locked up.

Incompatibilities

Acids, alkalis, oxidizing materials, reducing agents, reactive metals, halogens, combustible materials, metals, amines, bases.

*** Section 8 - Exposure Controls / Personal Protection ***

Component Exposure Limits

Hydrocarbon Solvents	Not Available
Alberta; Northwest Territories; Nunavut; Saskatchewan; Yukon	5 mg/m ³ TWA (related to Paraffin oils); 10 mg/m ³ STEL (related to Paraffin oils)
British Columbia	0.2 mg/m ³ TWA (mildly refined); 1 mg/m ³ TWA (severely refined) (related to Paraffin oils)
Manitoba; Nova Scotia	200 mg/m ³ TWA (application restricted to conditions in which there are negligible aerosol exposures) total Hydrocarbon vapor (related to Jet fuels); Skin - potential significant contribution to overall exposure by the cutaneous route (related to Jet fuels)
New Brunswick	5 mg/m ³ TWA (as sampled by a method that does not collect vapor) (related to Paraffin oils); 10 mg/m ³ STEL (related to Paraffin oils)
Ontario	5 mg/m ³ TWA (pure, highly and severely refined, excluding metal working fluids) inhalable ; (poorly and mildly refined, exposure by all routes should be carefully controlled to levels as low as possible, excluding metal working fluids) (related to Paraffin oils)

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Prince Edward Island	200 mg/m ³ TWA (application restricted to conditions in which there are negligible aerosol exposures) total Hydrocarbon vapor (related to Jet fuels)
Quebec	300 ppm TWAEV ; 890 mg/m ³ TWAEV (related to Gasoline, natural) 500 ppm STEV ; 1480 mg/m ³ STEV (related to Gasoline, natural)
ACGIH:	200 mg/m ³ TWA (application restricted to conditions in which there are negligible aerosol exposures) total hydrocarbon vapor (related to Jet fuels) Skin - potential significant contribution to overall exposure by the cutaneous route (related to Jet fuels)
Metals	Not Available
Ontario	0.05 mg/m ³ TWA (designated substances regulation) ; 0.05 mg/m ³ TWA (applies to workplaces to which the designated substances regulation does not apply) (related to Lead); 0.05 mg/m ³ STEL (designated substances regulation) (related to Arsenic)
Polynuclear Aromatics	Not Available
Alberta	10 ppm TWA ; 52 mg/m ³ TWA (related to Naphthalene); 15 ppm STEL ; 79 mg/m ³ STEL (related to Naphthalene); Substance may be readily absorbed through intact skin (related to Naphthalene)
British Columbia	10 ppm TWA (related to Naphthalene); Skin notation (related to Naphthalene)
Manitoba; Nova Scotia	10 ppm TWA (related to Naphthalene); Skin - potential significant contribution to overall exposure by the cutaneous route (related to Naphthalene)
New Brunswick	10 ppm TWA ; 52 mg/m ³ TWA (related to Naphthalene); 15 ppm STEL ; 79 mg/m ³ STEL (related to Naphthalene)
Northwest Territories; Nunavut	10 ppm TWA (related to Naphthalene); 15 ppm STEL (related to Naphthalene) Skin notation (related to Naphthalene)
Ontario	10 ppm TWA (related to Naphthalene); Danger of cutaneous absorption (related to Naphthalene)
Prince Edward Island	10 ppm TWA (related to Naphthalene)
Quebec	10 ppm TWAEV ; 52 mg/m ³ TWAEV (related to Naphthalene); 15 ppm STEV ; 79 mg/m ³ STEV (related to Naphthalene)
Saskatchewan	10 ppm TWA (related to Naphthalene); 15 ppm STEL (related to Naphthalene) Potentially harmful after absorption through skin or mucous membranes (related to Naphthalene)
Yukon	10 ppm TWA ; 50 mg/m ³ TWA (related to Naphthalene); 15 ppm STEL ; 75 mg/m ³ STEL (related to Naphthalene)
ACGIH:	10 ppm TWA (related to Naphthalene); Skin - potential significant contribution to overall exposure by the cutaneous route (related to Naphthalene)

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Gasoline, natural	8006-61-9
Quebec	300 ppm TWAEV ; 890 mg/m3 TWAEV; 500 ppm STEV ; 1480 mg/m3 STEV
Paraffin oils	8012-95-1
Alberta; Northwest Territories; Nunavut; Saskatchewan; Yukon	5 mg/m3 TWA; 10 mg/m3 STEL
British Columbia	0.2 mg/m3 TWA (mildly refined) ; 1 mg/m3 TWA (severely refined)
Manitoba	5 mg/m3 TWA (excluding metal working fluids, highly & severely refined) inhalable particulate matter
New Brunswick	5 mg/m3 TWA (as sampled by a method that does not collect vapor);10 mg/m3 STEL
Nova Scotia; Prince Edward Island	5 mg/m3 TWA (excluding metal working fluids, highly & severely refined) inhalable particulate matter
Ontario	5 mg/m3 TWA (pure, highly and severely refined, excluding metal working fluids) inhalable ; (poorly and mildly refined, exposure by all routes should be carefully controlled to levels as low as possible, excluding metal working fluids)
Quebec	5 mg/m3 TWAEV mist ; 0 mg/m3 STEV mist
ACGIH:	5 mg/m3 TWA (excluding metal working fluids, highly & severely refined) inhalable particulate matter
Lead	7439-92-1
Alberta; British Columbia; Manitoba; New Brunswick; Nova Scotia; Prince Edward Island	0.05 mg/m3 TWA
Northwest Territories; Nunavut; Saskatchewan	0.05 mg/m3 TWA; 0.15 mg/m3 STEL
Nova Scotia	0.05 mg/m3 TWA
Ontario	0.05 mg/m3 TWA (designated substances regulation) ; 0.05 mg/m3 TWA (applies to workplaces to which the designated substances regulation does not apply)
Quebec	0.05 mg/m3 TWAEV
Yukon	0.15 mg/m3 TWA dust and fume; 0.45 mg/m3 STEL dust and fume
ACGIH:	0.05 mg/m3 TWA
Copper	7440-50-8

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Alberta; New Brunswick; Ontario	0.2 mg/m3 TWA fume ; 1 mg/m3 TWA dust and mist
British Columbia	1 mg/m3 TWA dust and mist ; 0.2 mg/m3 TWA fume
Manitoba; Prince Edward Island	0.2 mg/m3 TWA fume
Northwest Territories; Nunavut ; Saskatchewan	0.2 mg/m3 TWA fume ; 1 mg/m3 TWA dust and mist ;3 mg/m3 STEL dust and mist ; 0.6 mg/m3 STEL fume
Nova Scotia	0.2 mg/m3 TWA fume
Quebec	0.2 mg/m3 TWAEV fume ; 1 mg/m3 TWAEV dust and mist
Yukon	0.2 mg/m3 TWA fume ; 1 mg/m3 TWA dust and mist; 0.2 mg/m3 STEL fume ; 2 mg/m3 STEL dust and mist
ACGIH:	0.2 mg/m3 TWA fume
Chromium	7440-47-3
Alberta; New Brunswick	0.5 mg/m3 TWA
British Colombia	0.5 mg/m3 TWA total
Manitoba; Nova Scotia; Prince Edward Island	0.5 mg/m3 TWA inhalable particulate matter
Northwest Territories; Nunavut	0.5 mg/m3 TWA (metal) ; 1.5 mg/m3 STEL (metal)
Ontario	0.5 mg/m3 TWA
Quebec	0.5 mg/m3 TWAEV
Saskatchewan	0.5 mg/m3 TWA; 1.5 mg/m3 STEL
Yukon	0.1 mg/m3 TWA; 3 mg/m3 STEL
ACGIH:	0.5 mg/m3 TWA inhalable particulate matter
Arsenic	7440-38-2
Alberta; British Columbia; Manitoba; New Brunswick; Prince Edward Island	0.01 mg/m3 TWA
Northwest Territories; Nunavut; Saskatchewan	0.01 mg/m3 TWA; 0.03 mg/m3 STEL

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Nova Scotia	0.01 mg/m ³ TWA
Ontario	0.01 mg/m ³ TWA (designated substances regulation) ; 0.01 mg/m ³ TWA (applies to workplaces to which the designated substances regulation does not apply) 0.05 mg/m ³ STEL (designated substances regulation)
Quebec	0.1 mg/m ³ TWAEV
Yukon	0.5 mg/m ³ TWA; 0.5 mg/m ³ STEL
ACGIH:	0.01 mg/m ³ TWA
Nickel	7440-02-0
Alberta	1.5 mg/m ³ TWA
British Columbia	0.05 mg/m ³ TWA
Manitoba; Prince Edward Island	1.5 mg/m ³ TWA inhalable particulate matter
New Brunswick	1 mg/m ³ TWA
Northwest Territories; Nunavut; Saskatchewan	1.5 mg/m ³ TWA inhalable fraction; 3 mg/m ³ STEL inhalable fraction
Nova Scotia	1.5 mg/m ³ TWA inhalable particulate matter
Ontario	1 mg/m ³ TWA inhalable
Quebec	1 mg/m ³ TWAEV
Yukon	1 mg/m ³ TWA ;3 mg/m ³ STEL
ACGIH:	1.5 mg/m ³ TWA inhalable particulate matter
Naphthalene	91-20-3
Alberta	10 ppm TWA ; 52 mg/m ³ TWA; 15 ppm STEL ; 79 mg/m ³ STEL Substance may be readily absorbed through intact skin
British Columbia	10 ppm TWA; Skin notation
Manitoba; Nova Scotia	10 ppm TWA; Skin - potential significant contribution to overall exposure by the cutaneous route
New Brunswick	10 ppm TWA ; 52 mg/m ³ TWA; 15 ppm STEL ; 79 mg/m ³ STEL
Northwest Territories; Nunavut	10 ppm TWA; 15 ppm STEL; Skin notation

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Ontario	10 ppm TWA; Danger of cutaneous absorption
Prince Edward Island	10 ppm TWA
Quebec	10 ppm TWAEV ; 52 mg/m3 TWAEV; 15 ppm STEV ; 79 mg/m3 STEV
Saskatchewan	10 ppm TWA; 15 ppm STEL; Potentially harmful after absorption through skin or mucous membranes
Yukon	10 ppm TWA ; 50 mg/m3 TWA; 15 ppm STEL ; 75 mg/m3 STEL
ACGIH:	10 ppm TWA; Skin - potential significant contribution to overall exposure by the cutaneous route

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

Metals (Not Available)

200 µg/l Medium: blood Time: not critical Parameter: Lead (Note: Persons applying this BEI are encouraged to counsel female workers of child-bearing age about the risk of delivering a child with a PbB (lead in blood level) over the current CDC reference value) (related to Lead)

Polynuclear Aromatics (Not Available)

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

Lead (7439-92-1)

200 µg/l Medium: blood Time: not critical Parameter: Lead (Note: Persons applying this BEI are encouraged to counsel female workers of child-bearing age about the risk of delivering a child with a PbB (lead in blood level) over the current CDC reference value)

Arsenic (7440-38-2)

35 µg As/L Medium: urine Time: end of workweek Parameter: Inorganic arsenic plus methylated metabolites (background)

Naphthalene (91-20-3)

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

Appropriate Engineering Controls

Provide general ventilation needed to maintain concentration of vapor or mist below applicable exposure limits. Where adequate general ventilation is unavailable, use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below applicable exposure limits. Where explosive mixtures may be present, equipment safe for such locations should be used.

Individual Protective Measures, such as Personal Protective Equipment

Personal protective equipment should be selected based upon the conditions under which this product is used. A hazard assessment of the work area for PPE requirements should be conducted by a qualified professional pursuant to regulatory requirements. The following PPE should be considered the minimum required: safety glasses, gloves, lab coat, or apron.

Eyes/Face Protection

Wear safety glasses. Additional protection like goggles, face shields, or respirators may be needed dependent upon anticipated use and concentrations of mists or vapors. Eye wash fountain and emergency showers are recommended. Contact lens use is not recommended.

Skin Protection

Where skin contact is likely, wear chemical impervious protective gloves; use of natural rubber (latex) or equivalent gloves is not recommended. To avoid prolonged or repeated contact with product where spills and splashes are likely, wear appropriate chemical-resistant faceshield, boots, apron, whole body suits or other protective clothing.

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Respiratory Protection

Protection provided by air purifying respirators is limited. Selection and use of respiratory protective equipment should be in accordance in the USA with OSHA General Industry Standard 29 CFR 1910.134; or in Canada with CSA Standard Z94.4.

*** Section 9 - Physical & Chemical Properties ***

Appearance/Odor : Black, viscous liquid with petroleum odor.	pH: Not applicable.
Boiling Point: Not available.	Odor Threshold: Not available.
Solubility (H2O): Slight.	Melting Point: Not available.
Density: 6.7 to 8.3 LB/US gal (800 to 1000 g/l)	Specific Gravity: 0.8 to 1.0 (water = 1) @ 60°F (16°C)
Evaporation Rate: Less than 1 (Butyl acetate = 1)	Octanol/H2O Coeff.: Not available.
LFL: Not available	Auto Ignition Temperature: Not available
UFL: Not available	Flash Point: >200°F (>93.4°C) Closed Cup
	Viscosity: Not available

*** Section 10 - Stability & Reactivity ***

Reactivity

No reactivity hazard is expected.

Chemical Stability

Stable under normal temperatures and pressures.

Possibility of Hazardous Reactions

Polymerization is not known to occur under normal temperature and pressures. Not reactive with water.

Conditions To Avoid

Avoid heat, sparks, or flame. Avoid contact with incompatible materials.

Incompatible Materials

Avoid acids, alkalis, oxidizing materials, reducing agents, reactive metals, halogens, combustible materials, metals, bases, and amines.

Hazardous Decomposition Products

Decomposition products include phosgene, oxides of carbon, oxides of nitrogen, unidentified organic compounds, oxides of chromium, oxides of iron, oxides of lead, and nickel compounds.

*** Section 11 - Toxicological Information ***

Toxicity Data and Information

Component Analysis - LD50/LC50

Hydrocarbon Solvents (Not Available)

Oral LD50 Rat >5000 mg/kg (related to Distillates, petroleum, straight-run middle); Dermal LD50 Rabbit >2000 mg/kg (related to Distillates, petroleum, straight-run middle); Inhalation LC50 Rat 300 g/m³ 5 min (related to Gasoline, natural)

Metals (Not Available)

Oral LD50 Rat 30 g/kg (related to Iron); Inhalation LC50 Rat >10.2 mg/L 1 h (no deaths occurred) (related to Nickel)

Polynuclear Aromatics (Not Available)

Oral LD50 Rat 1110 mg/kg (related to Naphthalene); Dermal LD50 Rabbit 1120 mg/kg (related to Naphthalene); Inhalation LC50 Rat >340 mg/m³ 1 h (related to Naphthalene)

Gasoline, natural (8006-61-9)

Oral LD50 Rat 14063 mg/kg; Inhalation LC50 Rat 300 g/m³ 5 min

Distillates, petroleum, straight-run middle (64741-44-2)

Oral LD50 Rat >5000 mg/kg; Dermal LD50 Rabbit >2000 mg/kg; Inhalation LC50 Rat 1.78 mg/L 4 h

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Paraffin oils (8012-95-1)

Oral LD50 Rat >24 g/kg; Inhalation LC50 Rat 2062 ppm 4 h

Iron (7439-89-6)

Oral LD50 Rat 30 g/kg

Zinc (7440-66-6)

Oral LD50 Rat 630 mg/kg

Arsenic (7440-38-2)

Oral LD50 Rat 15 mg/kg

Nickel (7440-02-0)

Oral LD50 Rat >9000 mg/kg (powder suspended in mineral oil); Inhalation LC50 Rat >10.2 mg/L 1 h (no deaths occurred)

Naphthalene (91-20-3)

Oral LD50 Rat 1110 mg/kg; Dermal LD50 Rabbit 1120 mg/kg; Inhalation LC50 Rat >340 mg/m3 1 h

Fluoranthene (206-44-0)

Oral LD50 Rat 2 g/kg; Dermal LD50 Rabbit 3180 mg/kg

Phenanthrene (85-01-8)

Oral LD50 Mouse 700 mg/kg

Product Toxicity Data

Acute Toxicity Estimate

Dermal	> 2000 mg/kg
Oral	315.1951 mg/kg

Immediate Effects

Harmful if inhaled. Harmful in contact with skin. Harmful if swallowed. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause allergic skin reactions, respiratory tract irritation, skin irritation, eye irritation, asthma, central nervous system depression, circulatory system damage, digestive disorder, kidney damage, liver damage, nervous system damage, respiratory system damage, skin damage, lung damage, blood damage, eye damage, systemic toxicity damage.

Delayed Effects

May cause allergic reactions, mutagenic effects, cancer, reproductive effects, circulatory system damage, digestive disorder, kidney damage, liver damage, nervous system damage, respiratory system damage, skin damage, lung damage, cardiovascular system damage, central nervous system damage, blood damage, immune system disorders, peripheral nerve damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Irritation/Corrosivity Data

May cause respiratory irritation, skin irritation, eye irritation.

Respiratory Sensitization

Based on best current information, there may be known human sensitization associated with this product.

Dermal Sensitization

May cause an allergic skin reaction.

Component Carcinogenicity

Hydrocarbon Solvents	Not Available
ACGIH:	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans (related to Jet fuels)
IARC:	Monograph 45 [1989] (related to Jet fuels) (Group 3 (not classifiable))
Paraffin oils	8012-95-1

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ACGIH:	A4 - Not Classifiable as a Human Carcinogen (highly and severely refined); A2 - Suspected Human Carcinogen (poorly and mildly refined)
Lead	7439-92-1
ACGIH:	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans
IARC:	Monograph 87 [2006] (Monograph 87 evaluates inorganic lead compounds as Group 2A and organic lead compounds as Group 3. CAS 7439-92-1 still assigned 2B on IARC website even though Monograph 87 assigns 2A with more recent date) (Group 2A (probably carcinogenic to humans))
NTP:	Reasonably Anticipated To Be A Human Carcinogen
DFG:	Category 2 (considered to be carcinogenic for man)
OSHA:	Present
Chromium	7440-47-3
IARC:	Monograph 49 [1990] ; Supplement 7 [1987] (Group 3 (not classifiable))
Arsenic	7440-38-2
ACGIH:	A1 - Confirmed Human Carcinogen
IARC:	Monograph 100C [2012] ; Monograph 84 [2004] (in drinking water); Supplement 7 [1987] ; Monograph 23 [1980] (Group 1 (carcinogenic to humans))
NTP:	Known Human Carcinogen
DFG:	Category 1 (causes cancer in man)
OSHA:	Present
NIOSH:	potential occupational carcinogen
Nickel	7440-02-0
ACGIH:	A5 - Not Suspected as a Human Carcinogen
IARC:	Monograph 49 [1990] ; Supplement 7 [1987] (Group 2B (possibly carcinogenic to humans))
NTP:	Reasonably Anticipated To Be A Human Carcinogen
DFG:	Category 1 (causes cancer in man)
OSHA:	Present
NIOSH:	potential occupational carcinogen
Naphthalene	91-20-3
ACGIH:	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

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IARC:	Monograph 82 [2002] (Group 2B (possibly carcinogenic to humans))
NTP:	Reasonably Anticipated To Be A Human Carcinogen
DFG:	Category 2 (considered to be carcinogenic for man)
OSHA:	Present
Fluoranthene	206-44-0
IARC:	Monograph 92 [2010] ; Supplement 7 [1987] ; Monograph 32 [1983] (Group 3 (not classifiable))
Phenanthrene	85-01-8
IARC:	Monograph 92 [2010] ; Supplement 7 [1987] ; Monograph 32 [1983] (Group 3 (not classifiable))

Germ Cell Mutagenicity

May cause genetic defects.

Tumorigenic Data

Based on best current information, there may be known teratogenicity associated with this product.

Reproductive Toxicity

May damage fertility or the unborn child.

Specific Target Organ Toxicity - Single Exposure

Hematopoietic System, circulatory system, digestive system, kidneys, liver, nervous system, respiratory system, lungs, skin.

Specific Target Organ Toxicity - Repeated Exposure

Hematopoietic System, circulatory system, digestive system, kidneys, liver, nervous system, respiratory system, lungs, central nervous system, cardiovascular system, blood, peripheral nerve system, immune system, skin.

Aspiration hazard

No information available for the product.

Medical Conditions Aggravated by Exposure

Individuals with pre-existing respiratory tract (nose, throat, and lungs), central nervous system, kidney, eye, and/or skin disorders may have increased susceptibility to the effects of exposure.

***** Section 12 - Ecological Information *****

Ecotoxicity

Hydrocarbon Solvents	Not Available
Fish:	LC50 96 h Oncorhynchus mykiss 56 mg/L (related to Gasoline, natural)
Algae:	EC50 72 h Pseudokirchneriella subcapitata 4700 mg/L IUCLID (related to Gasoline, natural)
Metals	Not Available
Fish:	LC50 96 h Cyprinus carpio 0.44 mg/L [semi-static] ; LC50 96 h Oncorhynchus mykiss 1.17 mg/L [flow-through] ; LC50 96 h Oncorhynchus mykiss 1.32 mg/L [static] (related to Lead)
Algae:	EC50 96 h Pseudokirchneriella subcapitata 0.11 - 0.271 mg/L [static] EPA ; EC50 72 h Pseudokirchneriella subcapitata 0.09 - 0.125 mg/L [static] EPA (related to Zinc)
Invertebrate:	EC50 48 h water flea 600 µg/L (related to Lead)

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Polynuclear Aromatics	Not Available
Fish:	LC50 96 h Pimephales promelas 5.74 - 6.44 mg/L [flow-through] ; LC50 96 h Oncorhynchus mykiss 1.6 mg/L [flow-through] ; LC50 96 h Oncorhynchus mykiss 0.91 - 2.82 mg/L [static] ; LC50 96 h Pimephales promelas 1.99 mg/L [static] ; LC50 96 h Lepomis macrochirus 31.0265 mg/L [static] (related to Naphthalene)
Invertebrate:	LC50 48 h Daphnia magna 2.16 mg/L IUCLID ; EC50 48 h Daphnia magna 1.96 mg/L [Flow through] EPA ; EC50 48 h Daphnia magna 1.09 - 3.4 mg/L [Static] EPA (related to Naphthalene)
Gasoline, natural	8006-61-9
Fish:	LC50 96 h Oncorhynchus mykiss 56 mg/L
Algae:	EC50 72 h Pseudokirchneriella subcapitata 4700 mg/L IUCLID
Lead	7439-92-1
Fish:	LC50 96 h Cyprinus carpio 0.44 mg/L [semi-static] ; LC50 96 h Oncorhynchus mykiss 1.17 mg/L [flow-through] ; LC50 96 h Oncorhynchus mykiss 1.32 mg/L [static]
Invertebrate:	EC50 48 h water flea 600 µg/L
Zinc	7440-66-6
Fish:	LC50 96 h Pimephales promelas 2.16 - 3.05 mg/L [flow-through] ; LC50 96 h Pimephales promelas 0.211 - 0.269 mg/L [semi-static] ; LC50 96 h Pimephales promelas 2.66 mg/L [static] ; LC50 96 h Cyprinus carpio 30 mg/L ; LC50 96 h Cyprinus carpio 0.45 mg/L [semi-static] ; LC50 96 h Cyprinus carpio 7.8 mg/L [static] ; LC50 96 h Lepomis macrochirus 3.5 mg/L [static] ; LC50 96 h Oncorhynchus mykiss 0.24 mg/L [flow-through] ; LC50 96 h Oncorhynchus mykiss 0.59 mg/L [semi-static] ; LC50 96 h Oncorhynchus mykiss 0.41 mg/L [static]
Algae:	EC50 96 h Pseudokirchneriella subcapitata 0.11 - 0.271 mg/L [static] EPA ; EC50 72 h Pseudokirchneriella subcapitata 0.09 - 0.125 mg/L [static] EPA
Invertebrate:	EC50 48 h Daphnia magna 0.139 - 0.908 mg/L [Static] EPA
Copper	7440-50-8
Fish:	LC50 96 h Pimephales promelas 0.0068 - 0.0156 mg/L ; LC50 96 h Pimephales promelas <0.3 mg/L [static] ; LC50 96 h Pimephales promelas 0.2 mg/L [flow-through] ; LC50 96 h Oncorhynchus mykiss 0.052 mg/L [flow-through] ; LC50 96 h Lepomis macrochirus 1.25 mg/L [static] ; LC50 96 h Cyprinus carpio 0.3 mg/L [semi-static] ; LC50 96 h Cyprinus carpio 0.8 mg/L [static] ; LC50 96 h Poecilia reticulata 0.112 mg/L [flow-through]
Algae:	EC50 72 h Pseudokirchneriella subcapitata 0.0426 - 0.0535 mg/L [static] EPA ; EC50 96 h Pseudokirchneriella subcapitata 0.031 - 0.054 mg/L [static] EPA
Invertebrate:	EC50 48 h Daphnia magna 0.03 mg/L [Static] EPA
Nickel	7440-02-0

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Fish:	LC50 96 h Brachydanio rerio >100 mg/L; LC50 96 h Cyprinus carpio 1.3 mg/L [semi-static]; LC50 96 h Cyprinus carpio 10.4 mg/L [static]
Algae:	EC50 72 h Pseudokirchneriella subcapitata 0.18 mg/L IUCLID ; EC50 96 h Pseudokirchneriella subcapitata 0.174 - 0.311 mg/L [static] EPA
Invertebrate:	EC50 48 h Daphnia magna >100 mg/L IUCLID ; EC50 48 h Daphnia magna 1 mg/L [Static] EPA
Naphthalene	91-20-3
Fish:	LC50 96 h Pimephales promelas 5.74 - 6.44 mg/L [flow-through]; LC50 96 h Oncorhynchus mykiss 1.6 mg/L [flow-through]; LC50 96 h Oncorhynchus mykiss 0.91 - 2.82 mg/L [static]; LC50 96 h Pimephales promelas 1.99 mg/L [static]; LC50 96 h Lepomis macrochirus 31.0265 mg/L [static]
Invertebrate:	LC50 48 h Daphnia magna 2.16 mg/L IUCLID ; EC50 48 h Daphnia magna 1.96 mg/L [Flow through] EPA ; EC50 48 h Daphnia magna 1.09 - 3.4 mg/L [Static] EPA

Persistence and Degradability

No information available for the product.

Bioaccumulation Potential

No information available for the product.

Mobility in Soil

No information available for the product.

*** Section 13 - Disposal Considerations ***

Disposal Methods

Dispose in accordance with federal, state, provincial, and local regulations. Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste. Contact Kleen Performance Products regarding proper recycling or disposal.

*** Section 14 - Transport Information ***

International Transportation Regulations

DOT Not regulated for transport. Marine pollutant.

TDG Not regulated for transport.

International Bulk Chemical Code

This material contains one or more of the following chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.

Polynuclear Aromatics	Not Available
IBC Code:	Category X (molten) (related to Naphthalene)
Naphthalene	91-20-3
IBC Code:	Category X (molten)

*** Section 15 - Regulatory Information ***

VOC (As Regulated)

56 WT%; <500 g/L (calculated)

As per 40 CFR Part 51.100(s).

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Canada Regulations

CEPA - Priority Substances List

None of this product's components are on the list.

Ozone Depleting Substances

None of this product's components are on the list.

Council of Ministers of the Environment - Soil Quality Guidelines

Lead	7439-92-1
Residential and Parkland	140 mg/kg (dry weight)
Zinc	7440-66-6
Residential and Parkland	250 mg/kg (dry weight)
Copper	7440-50-8
Residential and Parkland	63 mg/kg (dry weight)
Chromium	7440-47-3
Residential and Parkland	64 mg/kg (dry weight, total)
Arsenic	7440-38-2
Residential and Parkland	12 mg/kg (dry weight)
Nickel	7440-02-0
Residential and Parkland	45 mg/kg (dry weight)
Naphthalene	91-20-3
Residential and Parkland	(consult factsheet)
Fluoranthene	206-44-0
Residential and Parkland	(consult factsheet)
Phenanthrene	85-01-8
Residential and Parkland	(consult factsheet)

Council of Ministers of the Environment - Water Quality Guidelines

Arsenic	7440-38-2
Marine Aquatic Life	12.5 µg/L
Naphthalene	91-20-3
Marine Aquatic Life	1.4 µg/L

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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.

Polynuclear Aromatics	Not Available
SARA 302:	1000 lb lower TPQ ; 10000 lb upper TPQ (related to Pyrene)
SARA 304:	5000 lb EPCRA RQ (related to Pyrene)
Lead	7439-92-1
SARA 313:	0.1 % Supplier notification limit ; 0.1 % de minimis concentration (when contained in stainless steel, brass, or bronze)
CERCLA:	10 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm) ; 4.54 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm)
Zinc	7440-66-6
SARA 313:	1 % de minimis concentration (dust or fume only)
CERCLA:	454 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm) ; 1000 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm)
Copper	7440-50-8
SARA 313:	1 % de minimis concentration
CERCLA:	5000 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm) ; 2270 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm)
Chromium	7440-47-3
SARA 313:	1 % de minimis concentration
CERCLA:	5000 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm) ; 2270 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm)
Arsenic	7440-38-2
SARA 313:	0.1 % de minimis concentration
CERCLA:	1 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm) ; 0.454 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm)

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Nickel	7440-02-0
SARA 313:	0.1 % de minimis concentration
CERCLA:	100 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm); 45.4 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm)
Naphthalene	91-20-3
SARA 313:	0.1 % 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
Phenanthrene	85-01-8
SARA 313:	1 % de minimis concentration
CERCLA:	5000 lb final RQ ; 2270 kg final RQ

U.S. State Regulations

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

Component	CAS	MA	MN	NJ	PA	CA
Hydrocarbon Solvents (¹ related to: Oil mist, mineral) (² related to: Gasoline)	Not Available	Yes ¹	Yes ²	Yes ¹	Yes ¹	Yes ¹
Metals (¹ related to: Lead)	Not Available	Yes ¹	Yes ¹	Yes ¹	Yes ¹	Yes ¹
Polynuclear Aromatics (¹ related to: Naphthalene)	Not Available	Yes ¹	Yes ¹	Yes ¹	Yes ¹	Yes ¹

THIS PRODUCT IS NOT FOR SALE OR USE IN THE STATE OF CALIFORNIA.

Component Analysis - Inventory

Used oil (Not Available)

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

Water/Solids (Not Available)

US	CA	AU	CN	EU	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2
No	No	No	No	No	No	No	No	No

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KR - REACH CCA	MX	NZ	PH	TH-TECI	TW	VN (Draft)
No	No	No	No	No	No	No

Hydrocarbon Solvents (Not Available)

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

Metals (Not Available)

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

Polynuclear Aromatics (Not Available)

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

Gasoline, natural (8006-61-9)

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

Distillates, petroleum, straight-run middle (64741-44-2)

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

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Paraffin oils (8012-95-1)

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

Lead (7439-92-1)

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

Iron (7439-89-6)

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

Zinc (7440-66-6)

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

Copper (7440-50-8)

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

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Chromium (7440-47-3)

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

Arsenic (7440-38-2)

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

Nickel (7440-02-0)

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

Naphthalene (91-20-3)

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

Fluoranthene (206-44-0)

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

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Phenanthrene (85-01-8)

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

*** Section 16 - Other Information ***

NFPA Ratings: Health: 1 Fire: 2 Reactivity: 0

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

Summary of Changed:

Regulatory review and update. Change to Section 15.

Key/Legend

ACGIH - American Conference of Governmental Industrial Hygienists; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CN - China; CPR - Controlled Products Regulations; DOT - Department of Transportation; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; RTECS - Registry of Toxic Effects of Chemical Substances®; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States

Disclaimer

User assumes all risks incident to the use of this (these) product(s). To the best of our knowledge, the information contained herein is accurate. However, Kleen Performance Products assumes no liability whatsoever for the accuracy or completeness of the information contained herein. No representations or warranties, either express or implied, of merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to information or the product to which information refers. The data contained on this sheet apply to the product(s) as supplied to the user.