Safety Data Sheet



Section 1: Identification

Product identifier

Product Name No. 6 Fuel Oil

Synonyms
• Bunker C Fuel; No. 6 Fuel Oil; No. 6 Residual Fuel

CAS Number • 68553-00-4 **SDS Number/Grade** • 0009NOR001

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

Recommended use • Consult manufacturer for the recommended product use

Details of the supplier of the safety data sheet

Manufacturer • Northern Tier Energy

301 St. Paul Park Road St. Paul Park, MN 55071

United States
www.ntenergy.com

NTE.MSDS@ntenergy.com

Telephone (General) • 651-459-9771

Emergency telephone number

Manufacturer • 877-627-5463

Section 2: Hazard Identification

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

OSHA HCS 2012

• Flammable Liquids 3
Skin Irritation 2

Germ Cell Mutagenicity 2

Carcinogenicity 2

Specific Target Organ Toxicity Repeated Exposure 1
Specific Target Organ Toxicity Repeated Exposure 2

Label elements
OSHA HCS 2012

DANGER







Hazard statements • Flammable liquid and vapour

Causes skin irritation

Suspected of causing genetic defects.

Suspected of causing cancer.

Causes damage to organs through prolonged or repeated exposure. May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

Prevention • Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood. Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.

Keep container tightly closed.

Ground and/or bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Do not breathe mist, vapours and/or spray.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Wear protective gloves/protective clothing/eye protection/face protection.

Response • In case of fire: Use appropriate media for extinction.

If on skin: Wash with plenty of water .

Specific treatment, see supplemental first aid information. Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical advice/attention. IF exposed or concerned: Get medical advice/attention.

Get medical advice/attention if you feel unwell.

Storage/Disposal • Store in a well-ventilated place. Keep cool.

Store locked up.

Dispose of content and/or container in accordance with local, regional, national, and/or

international regulations.

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

Classification of the substance or mixture

WHMIS

Combustible Liquids - B3
 Other Toxic Effects - D2A
 Other Toxic Effects - D2B

Label elements

WHMIS





Combustible Liquids - B3
 Other Toxic Effects - D2A
 Other Toxic Effects - D2B

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

Substances

Material does not meet the criteria of a substance.

Mixtures

	Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments	
Residues (petroleum), vacuum	CAS :64741-56-6	0% TO 100%	NDA	OSHA HCS 2012: Flam. Liq. 3;	NDA	
Clarified slurry oil	CAS :64741-62-4	0% TO 90%	Ingestion/Oral-Rat LD50 • 4300 mg/kg Skin-Rabbit LD50 • >2000 mg/kg	OSHA HCS 2012: Skin Irrit. 2; STOT RE 2 (PNS, Liver);	NDA	
Diesel fuels	CAS :68334-30-5	0% TO 30%	NDA	OSHA HCS 2012: Skin Irrit. 2; STOT RE 1 (Lungs);	NDA	
Sulfur	CAS :7704-34-9	0.5% TO 4%	NDA	OSHA HCS 2012: Flam. Sol. 1; STOT SE 3: Resp. Irrit.; STOT RE 1 (Kidney, Lungs, Liver);	NDA	
Chrysene, 5- methyl-	CAS: 3697-24-3	0.01% TO 2%	NDA	OSHA HCS 2012: Carc. 2; Muta. 2;	NDA	
Naphthalene	CAS :91-20-3	0.01% TO 0.15%	Skin-Rabbit LD50 • >20 g/kg Ingestion/Oral-Rat LD50 • 490 mg/kg	OSHA HCS 2012: Flam. Sol. 2; Acute Tox. 4 (Orl); Skin Irrit. 2; Muta. 2; Carc. 2; Repr. 2; STOT SE 3: Narc.; STOT RE 1 (Blood, Eye, Orl, Inhl);	NDA	
Chrysene	CAS: 218-01-	0.01% TO 0.1%	NDA	OSHA HCS 2012: Comb. Dust; Carc. 2; Muta. 2;	NDA	

Section 4: First-Aid Measures

Description of first aid measures

Inhalation

 Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. Get medical attention if symptoms occur.

Skin

In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Remove and isolate contaminated clothing. Wash skin with soap and water. If irritation develops and persists, get medical attention.

Eye

Ingestion

- 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.
- Do NOT induce vomiting. Obtain medical attention immediately if ingested.

Most important symptoms and effects, both acute and delayed

• Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed

Notes to Physician

· All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Section 5: Fire-Fighting Measures

Extinguishing media Preparation Date: 30/November/2010

Revision Date: 02/November/2015

Suitable Extinguishing Media • For small fires, Class B fire extinguishing media such as CO2, dry chemical, foam

(AFFF/ATC) or water spray. For large fires, water spray, fog or foam (AFFF/ATC)

Unsuitable Extinguishing Media

Avoid using straight water streams.

Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards

• HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames.

Containers may explode when heated. Many liquids are lighter than water.

Vapors may form explosive mixtures with air.

Most vapors are heavier than air. They will spread along ground and collect in low or

confined areas (sewers, basements, tanks).

Vapors may travel to source of ignition and flash back. Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard.

Hazardous Combustion Products

No data available

Advice for firefighters

Structural firefighters' protective clothing will only provide limited protection. Wear positive pressure self-contained breathing apparatus (SCBA). Move containers from fire area if you can do it without risk.

LARGE FIRES: Cool containers with flooding quantities of water until well after fire is

Section 6 - Accidental Release Measures

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

As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions. LARGE SPILL: Consider initial downwind evacuation for at least 300 meters (1000 feet) ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep unauthorized personnel away. Štay upwind. Keep out of low areas. Ventilate closed spaces before entering.

Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Containment/Clean-up Measures

· Stop leak if you can do it without risk.

Absorb or cover with dry earth, sand or other non-combustible material and transfer to

Use clean non-sparking tools to collect absorbed material. A vapor suppressing foam may be used to reduce vapors.

All equipment used when handling the product must be grounded. LARGE SPILLS: Dike far ahead of liquid spill for later disposal.

LARGE SPILLS: Water spray may reduce vapor; but may not prevent ignition in

closed spaces.

Section 7 - Handling and Storage

Precautions for safe handling

Handling

 Use only in well ventilated areas. Avoid contact with heat and ignition sources. Do not use sparking tools. Take precautionary measures against static charges. All equipment used when handling the product must be grounded. Do not cut, drill, grind or weld on empty containers since they may contain explosive residues. Never siphon this product by mouth. Wear appropriate personal protective equipment, avoid direct contact. Do not breathe mist, vapours and/or spray. Avoid contact with skin, eyes, and clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

Conditions for safe storage, including any incompatibilities

Storage

 Keep container tightly closed. Store in appropriately labeled containers. Store in a cool/low-temperature, well-ventilated place.

Section 8 - Exposure Controls/Personal Protection

Control parameters

Exposure Limits/Guidelines					
	Result	ACGIH	NIOSH	OSHA	
Diesel fuels (68334-30-5)		100 mg/m3 TWA (inhalable fraction and vapor, as total hydrocarbons)	Not established	Not established	
Chrysene (218-01-9)	TWAs	Not established	Not established	0.2 mg/m3 TWA (listed under Coal tar pitch volatiles)	
Naphthalene (91-20-3)	TWAs	10 ppm TWA	10 ppm TWA; 50 mg/m3 TWA	10 ppm TWA; 50 mg/m3 TWA	
	STELs	Not established	15 ppm STEL; 75 mg/m3 STEL	Not established	

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. Use explosion-proof electrical/ventilating/lighting/equipment.

Personal Protective Equipment

Respiratory

In case of insufficient ventilation, wear suitable respiratory equipment.

Eye/Face

Wear safety goggles.

Skin/Body

Wear appropriate gloves.

Environmental Exposure

Controls

Follow best practice for site management and disposal of waste. Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

NIOSH = National Institute of Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

STEL = Short Term Exposure Limits are based on 15-minute exposures
TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

Material Description					
Physical Form	Liquid	Appearance/Description	A black viscous liquid with hydrocarbon odor.		
Color	Black	Odor	Hydrocarbon		
Odor Threshold	No data available				
General Properties	-		•		
Boiling Point	400 to 1200 F(204.4444 to 648.8889 C)	Melting Point/Freezing Point	No data available		

Decomposition Temperature	No data available	рН	Neutral		
Specific Gravity/Relative Density	0.88 to 1.12 Water=1	Density	7.3 to 9.3 lbs/gal		
Water Solubility	Negligible < 0.1 %	Viscosity	No data available		
Volatility					
Vapor Pressure	1 mmHg (torr) @ 160 F(71.1111 C)	Vapor Density	No data available		
Evaporation Rate	No data available	Volatiles (Wt.)	0 %		
Volatiles (Vol.)	0 %				
Flammability					
Flash Point	>= 140 F(>= 60 C)	UEL	6 %		
LEL	1 %	Autoignition	765 F(407.2222 C)		
Flammability (solid, gas)	No data available				
Environmental					
Octanol/Water Partition coefficient	No data available				

Section 10: Stability and Reactivity

Reactivity

• No dangerous reaction known under conditions of normal use.

Chemical stability

• Stable under normal temperatures and pressures.

Possibility of hazardous reactions

· Hazardous polymerization will not occur.

Conditions to avoid

• Excessive heat, sources of ignition and open flames.

Incompatible materials

• Strong oxidizers such as nitrates, chlorates, peroxides.

Hazardous decomposition products

• Combustion produces carbon monoxide, aldehydes, aromatic and other hydrocarbons.

Section 11 - Toxicological Information

Information on toxicological effects

		Components
Clarified slurry oil (0% TO 90%)	64741- 62-4	Acute Toxicity: Ingestion/Oral-Rat LD50 • 4300 mg/kg; Behavioral:Somnolence (general depressed activity); Gastrointestinal:Hypermotility, diarrhea; Skin-Rabbit LD50 • >2000 mg/kg; Irritation: Skin-Rabbit • 0.5 mL; Multi-dose Toxicity: Skin-Mouse TDLo • 50 g/kg 10 Week(s)-Intermittent; Liver:Hepatitis (hepatocellular necrosis), diffuse; Liver:Changes in liver weight; Related to Chronic Data:Death in the Other Multiple Dose data type field; Skin-Rabbit TDLo • 2400 mg/kg 28 Day(s)-Intermittent; Peripheral Nerve and Sensation:Spastic paralysis with or without sensory change; Liver:Changes in liver weight; Skin and Appendages:After systemic exposure:Dermatitis, other; Skin-Rat TDLo • 8125 mg/kg 13 Week(s)-Intermittent; Liver:Changes in liver weight; Endocrine:Changes in thymus weight; Related to Chronic Data:Death in the Other Multiple Dose dat type field; Mutagen: Unscheduled DNA synthesis • Unreported Route-Rat • Liver (Somatic cell) • 10000 µg/L 20 Hour(s); Reproductive: Skin-Rat TDLo • 600 mg/kg (1-20D preg); Reproductive Effects:Effects on Embryo or Fetus:Fetotoxicity (except death, e.g., stunted fetus); Tumorigen / Carcinogen: Skin-Mouse TDLo • 7 mL/kg 14 Week(s)-Intermittent; Tumorigenic:Equivocal tumorigenic agent by RTECS criteria; Tumorigenic:Tumors at site of application; Skin and

		Appendages:Other:Tumors
Diesel fuels (0% TO 30%)	68334- 30-5	Acute Toxicity: Ingestion/Oral-Rat LD50 • 7500 mg/kg; Irritation: Skin-Rabbit • 500 µL 24 Hour(s) • Severe irritation; Multi-dose Toxicity: Inhalation-Rat TCLo • 2 g/m³ 6 Hour(s) 3 Week(s)-Intermittent; Lungs, Thorax, or Respiration:Fibrosis, focal (pneumoconiosis); Lungs, Thorax, or Respiration:Other changes; Blood:Changes in erythrocyte (RBC) count; Skin-Rat TDLo • 14 g/kg 14 Day(s)-Intermittent; Blood:Normocytic anemia; Blood:Leukopenia; Nutritional and Gross Metabolic:Gross Metabolite Changes:Weight loss or decreased weight gain
Sulfur (0.5% TO 4%)	7704- 34-9	Acute Toxicity: Inhalation-Mammal LC50 • 1660 mg/m³; Irritation: Eye-Human • 8 ppm; Multi-dose Toxicity: Inhalation-Rat TCLo • 1.76 mg/m³ 4 Hour(s) 30 Day(s)-Intermittent; Liver:Hepatitis (hepatocellular necrosis), diffuse; Kidney, Ureter, and Bladder:Changes in tubules (including acute renal failure, acute tubular necrosis)
Chrysene, 5- methyl- (0.01% TO 2%)	3697- 24-3	Mutagen: DNA adduct • Skin-Mouse • 467 μmol/L
Naphthalene (0.01% TO 0.15%)	91-20- 3	Acute Toxicity: Ingestion/Oral-Rat LD50 • 490 mg/kg; Ingestion/Oral-Mouse TDLo • 158 mg/kg; Brain and Coverings:Other degenerative changes; Liver:Other changes; Biochemical:Metabolism (intermediary):Lipids, including transport; Inhalation-Human TCLo • 250 mg/m³; Sense Organs and Special Senses:Eye:Lacrimation; Behavioral:Headache; Skin-Rabbit LD50 • >20 g/kg; Unreported-Guinea Pig LD50 • 1200 mg/kg; Behavioral:Somnolence (general depressed activity); Irritation: Skin-Rabbit • 0.05 mL 24 Hour(s) • Severe irritation; Multi-dose Toxicity: Ingestion/Oral-Rat TDLo • 4500 mg/kg 10 Day(s)-Intermittent; Brain and Coverings:Other degenerative changes; Ingestion/Oral-Rat TDLo • 500 mg/kg 10 Day(s)-Intermittent; Behavioral:Sleep; Lungs, Thorax, or Respiration:Dyspnea; Mutagen: Specific locus test • Inhalation-Rat • 30 ppm 13 Week(s)-Intermittent; Micronucleus test • Unreported Route-Human • Lymphocyte (Somatic cell) • 30 mg/L; Reproductive: Ingestion/Oral-Mouse TDLo • 2400 mg/kg (7-14D preg); Reproductive Effects:Effects on Newborn:Live birth index; Reproductive Effects:Effects on Newborn:Viability index (e.g., # alive at day 4 per # born alive); Ingestion/Oral-Rat TDLo • 4500 mg/kg (6-15D preg); Reproductive Effects:Specific Developmental Abnormalities:Other developmental abnormalities; Tumorigen / Carcinogen: Inhalation-Mouse TCLo • 30 ppm 6 Hour(s) 2 Year(s)-Intermittent; Tumorigenic:Neoplastic by RTECS criteria; Lungs, Thorax, or Respiration:Tumors; Inhalation-Rat TCLo • 1575 mg/kg 105 Week(s)-Intermittent; Tumorigenic:Carcinogenic by RTECS criteria; Sense Organs and Special Senses:Olfaction:Tumors
Chrysene (0.01% TO 0.1%)	218- 01-9	Multi-dose Toxicity: Ingestion/Oral-Mouse TDLo • 47943 μg/kg 7 Day(s)-Intermittent; Liver:Other changes; Biochemical:Enzyme inhibition, induction, or change in blood or tissue levels:Multiple enzyme effects; Mutagen: Cytogenetic analysis • Ingestion/Oral-Mouse • 450 mg/kg; Micronucleus test • Skin-Mouse • 2 mg/kg; DNA adduct • Skin-Mouse • 192 μmol/kg; Tumorigen / Carcinogen: Skin-Mouse TDLo • 3600 μg/kg; Tumorigenic:Neoplastic by RTECS criteria; Skin and Appendages:Other:Tumors

Classification
OSHA HCS 2012 • No data available
OSHA HCS 2012 • No data available
OSHA HCS 2012 • No data available
OSHA HCS 2012 • No data available
OSHA HCS 2012 • Carcinogenicity 2
OSHA HCS 2012 • Skin Irritation 2
OSHA HCS 2012 • No data available

STOT-RE	OSHA HCS 2012 • Specific Target Organ Toxicity Repeated Exposure 1; Specific Target Organ Toxicity Repeated Exposure 2	
STOT-SE	OSHA HCS 2012 • No data available	
Toxicity for Reproduction	OSHA HCS 2012 • No data available	
Germ Cell Mutagenicity	OSHA HCS 2012 • Germ Cell Mutagenicity 2	

Potential Health Effects

Inhalation

Acute (Immediate)

· May cause irritation.

Chronic (Delayed)

No data available.

Skin

Acute (Immediate)

Causes skin irritation.

Chronic (Delayed)

· No data available.

Eye

Acute (Immediate)

May cause irritation.

Chronic (Delayed)

· No data available.

Ingestion

Acute (Immediate)

May cause irritation of the mouth, throat and gastrointestinal tract. Symptoms may
include a live time and disarrent and di

include salivation, pain, nausea, vomiting and diarrhea.

Chronic (Delayed)

· No data available.

Other

Chronic (Delayed)

- Repeated and prolonged exposure may cause damage to the lungs, liver, kidney and peripheral nervous system (PNS)
- Mutagenic Effects

Carcinogenic Effects

- Repeated and prolonged exposure may cause mutagenic effects.
- Repeated and prolonged exposure may cause cancer. Exposure to Diesel engine exhaust that is generated when this product is in use is known to cause cancer.

Carcinogenic Effects					
	CAS IARC NTP				
Diesel fuels	68334-30-5	Group 2B-Possible Carcinogen	Not Listed		
Diesel fuels as Exhaust, diesel	NDA	Group 1-Carcinogenic	Reasonably Anticipated to be Human Carcinogen		
Residues (petroleum), vacuum	64741-56-6	Group 2B-Possible Carcinogen	Not Listed		
Chrysene	218-01-9	Group 2B-Possible Carcinogen	Not Listed		
Chrysene, 5-methyl-	3697-24-3	Group 2B-Possible Carcinogen	Reasonably Anticipated to be Human Carcinogen		
Naphthalene	91-20-3	Group 2B-Possible Carcinogen	Reasonably Anticipated to be Human Carcinogen		

Key to abbreviations

LC = Lethal Concentration

LD = Lethal Dose

TC = Toxic Concentration

TD = Toxic Dose

Section 12 - Ecological Information

Toxicity

· Non-mandatory section - information about this substance not compiled for this

reason.

Persistence and degradability

 Non-mandatory section - information about this substance not compiled for this reason.

Bioaccumulative potential

 Non-mandatory section - information about this substance not compiled for this reason.

Mobility in Soil

 Non-mandatory section - information about this substance not compiled for this reason.

Other adverse effects

 Non-mandatory section - information about this substance not compiled for this reason.

Section 13 - Disposal Considerations

Waste treatment methods

Product waste

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

Packaging waste

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

Section 14 - Transport Information

	UN number	UN proper shipping name	Transport hazard class(es)	Packing group	Environmental hazards
РОТ	NA1993	Fuel oil (No. 6)	3	III	NDA
DOT	UN1202	Fuel oil (No. 6)	3	III	NDA
TDG	UN1202	FUEL OIL	3	III	NDA

Special precautions for user • None specified.

and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78

No data available

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture SARA Hazard Classifications • Acute, Chronic, Fire

Inventory					
Component	CAS	Canada DSL	Canada NDSL	TSCA	
Chrysene	218-01-9	Yes	No	Yes	
Chrysene, 5- methyl-	3697-24-3	No	No	No	
Clarified slurry oil	64741-62-4	Yes	No	Yes	
Diesel fuels	68334-30-5	Yes	No	Yes	
Naphthalene	91-20-3	Yes	No	Yes	
Residues					

(petroleum), vacuum	64741-56-6	Yes	No	Yes
Sulfur	7704-34-9	Yes	No	Yes

Canada

Clarified slurry oil	64741-62-4	Not Listed
Chrysene	218-01-9	Not Listed
Residues (petroleum), vacuum	64741-56-6	Not Listed
Diesel fuels	68334-30-5	Not Listed
Naphthalene	91-20-3	B4, D2A
Sulfur	7704-34-9	B4
Chrysene, 5-methyl-	3697-24-3	D2A
Clarified slurry oil	64741-62-4	Not Listed
anada - WHMIS - Ingredient Disclosure List Clarified slurry oil	64741-62-4	Not Listed
Chrysene	218-01-9	0.1 %
Residues (petroleum), vacuum	64741-56-6	Not Listed
	68334-30-5	Not Listed
Diesel fuels	91-20-3	1 %
Diesel fuels Naphthalene		AL (11 ()
	7704-34-9	Not Listed

Canada - CEPA - Priority Substances List		
· Clarified slurry oil	64741-62-4	Not Listed
• Chrysene	218-01-9	Not Listed
Residues (petroleum), vacuum	64741-56-6	Not Listed
• Diesel fuels	68334-30-5	Not Listed
Naphthalene	91-20-3	Not Listed
Sulfur	7704-34-9	Not Listed
Chrysene, 5-methyl-	3697-24-3	Not Listed

United States

S OSHA - Process Safety Management - Highly Haza		
Clarified slurry oil	64741-62-4	Not Listed
Chrysene	218-01-9	Not Listed
Residues (petroleum), vacuum	64741-56-6	Not Listed
Diesel fuels	68334-30-5	Not Listed
Naphthalene	91-20-3	Not Listed
Sulfur	7704-34-9	Not Listed
Chrysene, 5-methyl-	3697-24-3	Not Listed
J.S OSHA - Specifically Regulated Chemicals		
Clarified slurry oil	64741-62-4	Not Listed
Chrysene	218-01-9	Not Listed
Residues (petroleum), vacuum	64741-56-6	Not Listed
Diesel fuels	68334-30-5	Not Listed
Naphthalene	91-20-3	Not Listed
Sulfur	7704-34-9	Not Listed

• Chrysene, 5-methyl- 3697-24-3 Not Listed

F d		
U.S CAA (Clean Air Act) - 1990 Hazardous Air Pollutants		
Clarified slurry oil	64741-62-4	Not Listed
• Chrysene	218-01-9	Not Listed
Residues (petroleum), vacuum	64741-56-6	Not Listed
Diesel fuels	68334-30-5	Not Listed
Naphthalene	91-20-3	Not Listed
• Sulfur	7704-34-9	Not Listed
Chrysene, 5-methyl-	3697-24-3	Not Listed
Chirysene, 5-methyl-	3097-24-3	Not Listed
U.S CERCLA/SARA - Hazardous Substances and their Reportable Quantities		
Clarified slurry oil	64741-62-4	Not Listed
		100 lb final RQ; 45.4 kg final
Chrysene	218-01-9	RQ
Residues (petroleum), vacuum	64741-56-6	Not Listed
Diesel fuels	68334-30-5	Not Listed
N. 10 I	04.00.0	100 lb final RQ; 45.4 kg final
Naphthalene	91-20-3	RQ
• Sulfur	7704-34-9	Not Listed
Chrysene, 5-methyl-	3697-24-3	Not Listed
· · · · · · · · · · · · · · · · · · ·		
U.S CERCLA/SARA - Radionuclides and Their Reportable Quantities		
Clarified slurry oil	64741-62-4	Not Listed
Chrysene	218-01-9	Not Listed
Residues (petroleum), vacuum	64741-56-6	Not Listed
Diesel fuels	68334-30-5	Not Listed
Naphthalene	91-20-3	Not Listed
• Sulfur	7704-34-9	Not Listed
Chrysene, 5-methyl-	3697-24-3	Not Listed
U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs		
Clarified slurry oil	64741-62-4	Not Listed
Chrysene	218-01-9	Not Listed
Residues (petroleum), vacuum	64741-56-6	Not Listed
Diesel fuels	68334-30-5	Not Listed
Naphthalene	91-20-3	Not Listed
• Sulfur	7704-34-9	Not Listed
Chrysene, 5-methyl-	3697-24-3	Not Listed
S, 500.10, C. 1.100.1,1	333 3	
U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs		
Clarified slurry oil	64741-62-4	Not Listed
Chrysene	218-01-9	Not Listed
Residues (petroleum), vacuum	64741-56-6	Not Listed
Diesel fuels	68334-30-5	Not Listed
Naphthalene	91-20-3	Not Listed
• Sulfur	7704-34-9	Not Listed
Chrysene, 5-methyl-	3697-24-3	Not Listed
5, 555, 5 monty.	300. 210	
U.S CERCLA/SARA - Section 313 - Emission Reporting		
Clarified slurry oil	64741-62-4	Not Listed
	· •	1.0 % Supplier notification limit
Chrysons	240 04 0	(listed under Chemical
Chrysene	218-01-9	Category N590, Polycyclic

Not Listed Not Listed 0.1 % de minimis concentration Not Listed 0.1 % Supplier notification limit
0.1 % de minimis concentration Not Listed
concentration 9 Not Listed
0.1 % Supplier notification limit
(listed under Chemical Category N590, Polycyclic aromatic compounds)
2-4 Not Listed
100 lb RT (listed under
Polycyclic aromatic compounds)
i-6 Not Listed
-5 Not Listed
Not Listed
9 Not Listed
100 lb RT (listed under
 Polycyclic aromatic compounds)
(

United States - California

Environment U.S California - Proposition 65 - Carcinogens List		
Clarified slurry oil	64741-62-4	Not Listed
Charmed starry on Chrysene	218-01-9	carcinogen, initial date 1/1/90
•		Not Listed
Residues (petroleum), vacuum	64741-56-6	
Diesel fuels	68334-30-5	Not Listed
Naphthalene	91-20-3	carcinogen, initial date 4/19/02
• Sulfur	7704-34-9	Not Listed
Chrysene, 5-methyl-	3697-24-3	carcinogen, initial date 4/1/88
U.S California - Proposition 65 - Developmental Toxicity		
Clarified slurry oil	64741-62-4	Not Listed
Chrysene	218-01-9	Not Listed
Residues (petroleum), vacuum	64741-56-6	Not Listed
Diesel fuels	68334-30-5	Not Listed
Naphthalene	91-20-3	Not Listed
• Sulfur	7704-34-9	Not Listed
Chrysene, 5-methyl-	3697-24-3	Not Listed
U.S California - Proposition 65 - Maximum Allowable Dose Levels (MADL	.)	
Clarified slurry oil	64741-62-4	Not Listed
• Chrysene	218-01-9	Not Listed
Residues (petroleum), vacuum	64741-56-6	Not Listed
Diesel fuels	68334-30-5	Not Listed
Naphthalene	91-20-3	Not Listed
• Sulfur	7704-34-9	Not Listed
Chrysene, 5-methyl-	3697-24-3	Not Listed

Clarified slurry oil	64741-62-4	Not Listed
Chrysene	218-01-9	0.35 μg/day NSRL (oral)
Residues (petroleum), vacuum	64741-56-6	Not Listed
Diesel fuels	68334-30-5	Not Listed
Naphthalene	91-20-3	5.8 μg/day NSRL
• Sulfur	7704-34-9	Not Listed
Chrysene, 5-methyl-	3697-24-3	0.0084 µg/day NSRL (oral)
U.S California - Proposition 65 - Reproductive Toxicity - Female		
Clarified slurry oil	64741-62-4	Not Listed
Chrysene	218-01-9	Not Listed
Residues (petroleum), vacuum	64741-56-6	Not Listed
Diesel fuels	68334-30-5	Not Listed
Naphthalene	91-20-3	Not Listed
• Sulfur	7704-34-9	Not Listed
Chrysene, 5-methyl-	3697-24-3	Not Listed
U.S California - Proposition 65 - Reproductive Toxicity - Male		
Clarified slurry oil	64741-62-4	Not Listed
Chrysene	218-01-9	Not Listed
Residues (petroleum), vacuum	64741-56-6	Not Listed
Diesel fuels	68334-30-5	Not Listed
Naphthalene	91-20-3	Not Listed
• Sulfur	7704-34-9	Not Listed
Chrysene, 5-methyl-	3697-24-3	Not Listed

Other Information

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

Section 16 - Other Information

Revision Date

Preparation Date

Disclaimer/Statement of Liability

- 02/November/2015
- 30/November/2010
- The information and recommendations contained herein are based upon tests believed to be reliable. However, Northern Tier Energy does not guarantee their accuracy or completeness nor shall any of this information constitute a warranty, whether expressed or implied, as to the safety of the goods, the merchantability of the goods, or the fitness of the goods for a particular purpose. Adjustment to conform to actual conditions of usage maybe required. Northern Tier Energy assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied.

Key to abbreviations

NDA = No data available