



Safety Data Sheet

Section 1: Identification

Product identifier

Product Name

- **No. 2 Ultra Low Sulfur Diesel Dyed 15ppm Sulfur Max**

Synonyms

- No. 2 Diesel, Tax Exempt-Motor Vehicle; No. 2 Diesel, Tax Exempt-Motor Vehicle Use, Dyed, with Polar Plus; No. 2 MV 15 Diesel Dyed; No. 2 MV 15 Diesel Dyed, with Polar Plus; ULSD No. 2 Diesel Dyed 15 ppm Sulfur; ULSD No. 2 Diesel Dyed 15 ppm Sulfur Max; Ultra Low Sulfur Diesel No. 2 Dyed 15 ppm Sulfur Max; Ultra Low Sulfur Diesel No. 2 Dyed 15 ppm Sulfur Max with Polar Plus

CAS Number

- 68476-30-2

SDS Number/Grade

- 0008NOR001

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
Aspiration 1
Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects
Carcinogenicity 2

Label elements

OSHA HCS 2012

DANGER



- Hazard statements** • Flammable liquid and vapour
May be fatal if swallowed and enters airways
May cause drowsiness or dizziness
Suspected of causing cancer.

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.
Avoid breathing mist, vapours and/or spray.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.

- Response** • In case of fire: Use appropriate media for extinction.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Call a POISON CENTER or doctor/physician if you feel unwell.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
Do NOT induce vomiting.
IF exposed or concerned: Get medical advice/attention.

- Storage/Disposal** • Store in a well-ventilated place. Keep container tightly closed.
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

Label elements

WHMIS



- Combustible Liquids - B3
Other Toxic Effects - D2A

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
Fuels, diesel, No. 2	CAS:68476-34-6	99% TO 100%	NDA	OSHA HCS 2012: Flam. Liq. 3; STOT SE 3: Narc.; Asp. Tox. 1;	NDA
Naphthalene [0.01% TO 0.518%]	CAS:91-20-3	0.01% TO 0.518%	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, Eyes, Orl, Inhl);	NDA
Xylene [0.133485% TO 0.269282%]	CAS:1330-20-7	0.133485% TO 0.269282%	Ingestion/Oral-Rat LD50 • 4300 mg/kg Inhalation-Rat LC50 • 5000 ppm 4 Hour(s) Skin-Rabbit LD50 • >1700 mg/kg	OSHA HCS 2012: Flam. Liq. 3; Acute Tox. 4 (Inhl); Skin Irrit. 2; Eye Irrit. 2; Repr. 1B (Inhl); STOT SE 3: Narc.; STOT SE 3: Resp. Irrit.;	NDA
Ethylbenzene [0.0332% TO 0.07128%]	CAS:100-41-4	0.0332% TO 0.07128%	Ingestion/Oral-Rat LD50 • 3500 mg/kg Inhalation-Rat LC50 • 55000 mg/m ³ 2 Hour(s) Skin-Rabbit LD50 • >5000 mg/kg	OSHA HCS 2012: Exposure Limits	NDA
1-Methylethylbenzene [0.000079% TO 0.055963%]	CAS:98-82-8	0.000079% TO 0.055963%	Ingestion/Oral-Rat LD50 • 1400 mg/kg Skin-Rabbit LD50 • 12300 µL/kg Inhalation-Rat LC50 • 8000 ppm	OSHA HCS 2012: Exposure Limits	NDA
Kerosene [0.0024% TO 0.036%]	CAS:8008-20-6	0.0024% TO 0.036%	Ingestion/Oral-Rat LD50 • 15 g/kg Inhalation-Rat LC50 • >5000 mg/m ³ 4 Hour(s) Skin-Rabbit LD50 • >2000 mg/kg	OSHA HCS 2012: Exposure Limits	NDA
Toluene [0.00018% TO 0.02043%]	CAS:108-88-3	0.00018% TO 0.02043%	Ingestion/Oral-Rat LD50 • 636 mg/kg Inhalation-Rat LC50 • 49 g/m ³ 4 Hour(s) Skin-Rabbit LD50 • 14100 µL/kg	OSHA HCS 2012: Exposure Limits	NDA
Benzene [0.0000018% TO 0.018027%]	CAS:71-43-2	0.0000018% TO 0.018027%	Ingestion/Oral-Rat LD50 • 930 mg/kg Inhalation-Rat LC50 • 10000 ppm 7 Hour(s) Skin-Rabbit LD50 • >9400 µL/kg	OSHA HCS 2012: Exposure Limits	NDA
			Ingestion/Oral-Rat		

1,2,4-Trimethylbenzene [0.00205% TO 0.006282%]	CAS:95-63-6	0.00205% TO 0.006282%	LD50 • 5 g/kg Inhalation-Rat LC50 • 18000 mg/m ³ 4 Hour(s)	OSHA HCS 2012: Exposure Limits	NDA
1,3,5-Trimethylbenzene [0.000025% TO 0.000882%]	CAS:108-67-8	0.000025% TO 0.000882%	Inhalation-Rat LC50 • 24000 mg/m ³ 4 Hour(s) Ingestion/Oral-Rat LD50 • 5000 mg/kg	OSHA HCS 2012: Exposure Limits	NDA
1,3-Butadiene [0.00000072% TO 0.00000108%]	CAS:106-99-0	0.00000072% TO 0.00000108%	Inhalation-Rat LC50 • 128000 ppm 4 Hour(s) Ingestion/Oral-Rat LD50 • 5480 mg/kg	OSHA HCS 2012: Exposure Limits	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

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

Ingestion

- 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

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 out.

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. Stay 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 containers. 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. Never siphon this product by mouth. Do not cut, drill, grind or weld on empty containers since they may contain explosive residues. Wear appropriate personal protective equipment, avoid direct contact. Avoid breathing 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

1,3-Butadiene (106-99-0)	STELs	Not established	Not established	5 ppm STEL (see 29 CFR 1910.1051)
	TWAs	2 ppm TWA	Not established	1 ppm TWA (listed under Butadiene)
Benzene (71-43-2)	Ceilings	Not established	Not established	25 ppm Ceiling
	STELs	2.5 ppm STEL	1 ppm STEL	5 ppm STEL (see 29 CFR 1910.1028)
	TWAs	0.5 ppm TWA	0.1 ppm TWA	10 ppm TWA (applies to industry segments exempt from the benzene standard at 29 CFR 1910.1028); 1 ppm TWA
1,3,5-Trimethylbenzene (108-67-8)	TWAs	Not established	25 ppm TWA; 125 mg/m3 TWA	Not established
1-Methylethylbenzene (98-82-8)	TWAs	50 ppm TWA	50 ppm TWA; 245 mg/m3 TWA	50 ppm TWA; 245 mg/m3 TWA
Toluene (108-88-3)	Ceilings	Not established	Not established	300 ppm Ceiling
	TWAs	20 ppm TWA	100 ppm TWA; 375 mg/m3 TWA	200 ppm TWA
	STELs	Not established	150 ppm STEL; 560 mg/m3 STEL	Not established
1,2,4-Trimethylbenzene (95-63-6)	TWAs	Not established	25 ppm TWA; 125 mg/m3 TWA	Not established
Kerosene (8008-20-6)	TWAs	200 mg/m3 TWA (application restricted to conditions in which there are negligible aerosol exposures, total hydrocarbon vapor)	100 mg/m3 TWA	Not established
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
Ethylbenzene (100-41-4)	TWAs	20 ppm TWA	100 ppm TWA; 435 mg/m3 TWA	100 ppm TWA; 435 mg/m3 TWA
	STELs	Not established	125 ppm STEL; 545 mg/m3 STEL	Not established
Xylene (1330-20-7)	TWAs	100 ppm TWA	Not established	100 ppm TWA; 435 mg/m3 TWA
	STELs	150 ppm STEL	Not established	Not established
Fuels, diesel, No. 2 (68476-34-6)	TWAs	100 mg/m3 TWA (inhalable fraction and vapor, as total hydrocarbons, listed under Diesel fuel)	Not established	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	Red liquid.
Color	Red	Odor	No data available
Odor Threshold	No data available		
General Properties			
Boiling Point	360 to 550 F(182.2222 to 287.7778 C)	Melting Point/Freezing Point	No data available
Decomposition Temperature	No data available	pH	Neutral
Specific Gravity/Relative Density	= 0.8 Water=1	Density	6.76 lbs/gal
Water Solubility	Negligible < 0.1 %	Viscosity	No data available
Volatility			
Vapor Pressure	1 to 10 mmHg (torr) @ 100 F (37.7778 C)	Vapor Density	4 to 5 Air=1
Evaporation Rate	No data available	VOC (Wt.)	10 %
VOC (Vol.)	10 %		
Flammability			
Flash Point	120 to 190 F(48.8889 to 87.7778 C)	UEL	5 %
LEL	0.7 %	Autoignition	489 F(253.8889 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, perchlorates, chlorine, fluorine.

Hazardous decomposition products

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

Section 11 - Toxicological Information

Information on toxicological effects

Components		
Fuels, diesel, No. 2 (99% TO 100%)	68476-34-6	Tumorigen / Carcinogen: Skin-Mouse TDLo • 312 mL/kg 78 Week(s)-Intermittent; <i>Tumorigenic:Carcinogenic by RTECS criteria; Skin and Appendages:Other:Tumors</i>
Naphthalene (0.01% TO 0.518%)	91-20-3	Acute Toxicity: Ingestion/Oral-Rat LD50 • 490 mg/kg; Ingestion/Oral-Mouse TDLo • 158 mg/kg; <i>Brain and Coverings:Other degenerative changes; Liver:Other changes; Biochemical:Metabolism (intermediary):Lipids, including transport;</i> Inhalation-Human TClO • 250 mg/m ³ ; <i>Sense Organs and Special Senses:Eye:Lacrimation; Behavioral:Headache;</i> Skin-Rabbit LD50 • >20 g/kg; Unreported-Guinea Pig LD50 • 1200 mg/kg; <i>Behavioral:Somnolence (general depressed activity); Irritation:</i> Skin-Rabbit • 0.05 mL 24 Hour(s) • Severe irritation; Multi-dose Toxicity: Ingestion/Oral-Rat TDLo • 4500 mg/kg 10 Day(s)-Intermittent; <i>Brain and Coverings:Other degenerative changes;</i> Ingestion/Oral-Rat TDLo • 500 mg/kg 10 Day(s)-Intermittent; <i>Behavioral:Sleep; Lungs, Thorax, or Respiration:Dyspnea;</i> 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); <i>Reproductive Effects:Effects on Newborn:Live birth index; Reproductive Effects:Effects on Newborn:Viability index (e.g., # alive at day 4 per # born alive);</i> Ingestion/Oral-Rat TDLo • 4500 mg/kg (6-15D preg); <i>Reproductive Effects:Effects on Embryo or Fetus:Fetotoxicity (except death, e.g., stunted fetus); Reproductive Effects:Specific Developmental Abnormalities:Other developmental abnormalities;</i> Tumorigen / Carcinogen: Inhalation-Mouse TClO • 30 ppm 6 Hour(s) 2 Year(s)-Intermittent; <i>Tumorigenic:Neoplastic by RTECS criteria; Lungs, Thorax, or Respiration:Tumors;</i> Inhalation-Rat TClO • 1575 mg/kg 105 Week(s)-Intermittent; <i>Tumorigenic:Carcinogenic by RTECS criteria; Sense Organs and Special Senses:Olfaction:Tumors;</i> Inhalation-Rat TClO • 60 ppm 6 Hour(s) 105 Week(s)-Intermittent; <i>Tumorigenic:Carcinogenic by RTECS criteria; Sense Organs and Special Senses:Olfaction:Tumors</i>
Xylene (0.133485% TO 0.269282%)	1330-20-7	Acute Toxicity: Ingestion/Oral-Rat LD50 • 4300 mg/kg; <i>Liver:Other changes; Kidney, Ureter, and Bladder:Other changes;</i> Inhalation-Rat LC50 • 5000 ppm 4 Hour(s); Inhalation-Man LClO • 10000 ppm 6 Hour(s); <i>Behavioral:General anesthetic; Lungs, Thorax, or Respiration:Cyanosis; Blood:Other changes;</i> Inhalation-Human TClO • 200 ppm; <i>Sense Organs and Special Senses:Olfaction:Other changes; Sense Organs and Special Senses:Eye:Conjunctive irritation; Lungs, Thorax, or Respiration:Other changes;</i> Skin-Rabbit LD50 • >1700 mg/kg; Irritation: Eye-Rabbit • 5 mg 24 Hour(s) • Severe irritation; Skin-Rabbit • 500 mg 24 Hour(s) • Moderate irritation; Reproductive: Inhalation-Rabbit TClO • 1 g/m ³ 24 Hour(s)(7-20D preg); <i>Reproductive Effects:Effects on Fertility:Abortion;</i> Inhalation-Rat TClO • 50 mg/m ³ 6 Hour(s)(1-21D preg); <i>Reproductive Effects:Effects on Fertility:Post-implantation mortality; Reproductive Effects:Effects on Embryo or Fetus:Fetotoxicity (except death, e.g., stunted fetus); Reproductive Effects:Specific Developmental Abnormalities:Craniofacial (including nose and tongue);</i> Inhalation-Rat TDLo • 200 ppm 6 Hour(s)(4-20D preg); <i>Reproductive Effects:Specific Developmental Abnormalities:Musculoskeletal system; Reproductive Effects:Effects on Newborn:Behavioral</i>

GHS Properties	Classification
Respiratory sensitization	OSHA HCS 2012 • No data available
Serious eye damage/Irritation	OSHA HCS 2012 • No data available
Acute toxicity	OSHA HCS 2012 • No data available
Aspiration Hazard	OSHA HCS 2012 • Aspiration 1
Carcinogenicity	OSHA HCS 2012 • Carcinogenicity 2
Skin corrosion/Irritation	OSHA HCS 2012 • No data available
Skin sensitization	OSHA HCS 2012 • No data available
STOT-RE	OSHA HCS 2012 • No data available
STOT-SE	OSHA HCS 2012 • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects

Toxicity for Reproduction	OSHA HCS 2012 • No data available
Germ Cell Mutagenicity	OSHA HCS 2012 • No data available

Potential Health Effects

Inhalation

- Acute (Immediate)**
 - May affect the central nervous system. Symptoms may include dizziness, drowsiness, lethargy, coma and death.
- Chronic (Delayed)**
 - No data available.

Skin

- Acute (Immediate)**
 - Prolonged and repeated liquid contact can cause defatting and drying of the skin and can lead to irritation and/or dermatitis.
- Chronic (Delayed)**
 - No data available.

Eye

- Acute (Immediate)**
 - Produces little or no irritation on direct contact with the eye.
- Chronic (Delayed)**
 - No data available.

Ingestion

- Acute (Immediate)**
 - Material may be aspirated into lungs during ingestion and/or subsequent vomiting. Aspiration of this material will cause severe lung injury, chemical pneumonitis, pulmonary edema or death.
- Chronic (Delayed)**
 - No data available.

Carcinogenic Effects

- Repeated and prolonged exposure may cause cancer.

Carcinogenic Effects				
	CAS	OSHA	IARC	NTP
1,3-Butadiene	106-99-0	Specifically Regulated Carcinogen	Group 1-Carcinogenic	Known Human Carcinogen
Benzene	71-43-2	Specifically Regulated Carcinogen	Group 1-Carcinogenic	Known Human Carcinogen
1-Methylethylbenzene	98-82-8	Not Listed	Group 2B-Possible Carcinogen	Reasonably Anticipated to be Human Carcinogen
Kerosene as Exhaust, diesel	NDA	Not Listed	Group 1-Carcinogenic	Reasonably Anticipated to be Human Carcinogen
Naphthalene	91-20-3	Not Listed	Group 2B-Possible Carcinogen	Reasonably Anticipated to be Human Carcinogen
Ethylbenzene	100-41-4	Not Listed	Group 2B-Possible Carcinogen	Not Listed
Fuels, diesel, No. 2 as Exhaust, diesel	NDA	Not Listed	Group 1-Carcinogenic	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
DOT	UN1202	Fuel oil (No. 2)	3	III	NDA
	NA1993	Fuel oil (No. 2)	3	III	NDA
TDG	UN1202	FUEL OIL	3	III	NDA

Special precautions for user • None specified.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code • 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
1,2,4-Trimethylbenzene	95-63-6	Yes	No	Yes
1,3,5-Trimethylbenzene	108-67-8	Yes	No	Yes
1,3-Butadiene	106-99-0	Yes	No	Yes
1-Methylethylbenzene	98-82-8	Yes	No	Yes
Benzene	71-43-2	Yes	No	Yes
Benzene, propyl-	103-65-1	Yes	No	Yes

Ethylbenzene	100-41-4	Yes	No	Yes
Fuels, diesel, No. 2	68476-34-6	Yes	No	Yes
Kerosene	8008-20-6	Yes	No	Yes
Naphthalene	91-20-3	Yes	No	Yes
Toluene	108-88-3	Yes	No	Yes
Xylene	1330-20-7	Yes	No	Yes

Canada

Labor

Canada - WHMIS - Classifications of Substances

• Fuels, diesel, No. 2	68476-34-6	Not Listed
• 1,3-Butadiene	106-99-0	A, B1, D2A, F
• Benzene, propyl-	103-65-1	B2
• Naphthalene	91-20-3	B4, D2A
• 1-Methylethylbenzene	98-82-8	B2, D2A
• Ethylbenzene	100-41-4	B2, D2A, D2B
• Toluene	108-88-3	B2, D2A, D2B
• Xylene	1330-20-7	B2, D2A, D2B
• Benzene	71-43-2	B2, D2A, D2B
• 1,2,4-Trimethylbenzene	95-63-6	B3
• Kerosene	8008-20-6	B3, D2B
• 1,3,5-Trimethylbenzene	108-67-8	B3

Canada - WHMIS - Ingredient Disclosure List

• Fuels, diesel, No. 2	68476-34-6	Not Listed
• 1,3-Butadiene	106-99-0	0.1 %
• Benzene, propyl-	103-65-1	Not Listed
• Naphthalene	91-20-3	1 %
• 1-Methylethylbenzene	98-82-8	1 %
• Ethylbenzene	100-41-4	0.1 %
• Toluene	108-88-3	1 %
• Xylene	1330-20-7	Not Listed
• Benzene	71-43-2	0.1 %
• 1,2,4-Trimethylbenzene	95-63-6	0.1 %
• Kerosene	8008-20-6	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	0.1 %

Environment

Canada - CEPA - Priority Substances List

• Fuels, diesel, No. 2	68476-34-6	Not Listed
• 1,3-Butadiene	106-99-0	Priority Substance List 2 (substance considered toxic)
• Benzene, propyl-	103-65-1	Not Listed
• Naphthalene	91-20-3	Not Listed
• 1-Methylethylbenzene	98-82-8	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Toluene	108-88-3	Priority Substance List 1 (substance not considered toxic)
• Xylene	1330-20-7	Priority Substance List 1 (substance not considered toxic)

• Benzene	71-43-2	Priority Substance List 1 (substance considered toxic)
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Kerosene	8008-20-6	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed

United States

Labor

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

• Fuels, diesel, No. 2	68476-34-6	Not Listed
• 1,3-Butadiene	106-99-0	Not Listed
• Benzene, propyl-	103-65-1	Not Listed
• Naphthalene	91-20-3	Not Listed
• 1-Methylethylbenzene	98-82-8	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed
• Benzene	71-43-2	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Kerosene	8008-20-6	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

• Fuels, diesel, No. 2	68476-34-6	Not Listed
• 1,3-Butadiene	106-99-0	5 ppm STEL (See 29 CFR 1910.1051, 15 min); 0.5 ppm Action Level; 1 ppm TWA
• Benzene, propyl-	103-65-1	Not Listed
• Naphthalene	91-20-3	Not Listed
• 1-Methylethylbenzene	98-82-8	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed
• Benzene	71-43-2	5 ppm STEL (See 29 CFR 1910.1028, 15 min); 0.5 ppm Action Level; 1 ppm TWA
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Kerosene	8008-20-6	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed

Environment

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

• Fuels, diesel, No. 2	68476-34-6	Not Listed
• 1,3-Butadiene	106-99-0	
• Benzene, propyl-	103-65-1	Not Listed
• Naphthalene	91-20-3	
• 1-Methylethylbenzene	98-82-8	
• Ethylbenzene	100-41-4	(listed under Ethyl benzene)
• Toluene	108-88-3	
• Xylene	1330-20-7	(isomers and mixtures)
• Benzene	71-43-2	(including Benzene from gasoline)
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Kerosene	8008-20-6	Not Listed

• 1,3,5-Trimethylbenzene	108-67-8	Not Listed
U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities		
• Fuels, diesel, No. 2	68476-34-6	Not Listed
• 1,3-Butadiene	106-99-0	10 lb final RQ; 4.54 kg final RQ
• Benzene, propyl-	103-65-1	Not Listed
• Naphthalene	91-20-3	100 lb final RQ; 45.4 kg final RQ
• 1-Methylethylbenzene	98-82-8	5000 lb final RQ; 2270 kg final RQ
• Ethylbenzene	100-41-4	1000 lb final RQ; 454 kg final RQ
• Toluene	108-88-3	1000 lb final RQ; 454 kg final RQ
• Xylene	1330-20-7	100 lb final RQ; 45.4 kg final RQ
• Benzene	71-43-2	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)
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Kerosene	8008-20-6	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed
U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities		
• Fuels, diesel, No. 2	68476-34-6	Not Listed
• 1,3-Butadiene	106-99-0	Not Listed
• Benzene, propyl-	103-65-1	Not Listed
• Naphthalene	91-20-3	Not Listed
• 1-Methylethylbenzene	98-82-8	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed
• Benzene	71-43-2	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Kerosene	8008-20-6	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed
U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs		
• Fuels, diesel, No. 2	68476-34-6	Not Listed
• 1,3-Butadiene	106-99-0	Not Listed
• Benzene, propyl-	103-65-1	Not Listed
• Naphthalene	91-20-3	Not Listed
• 1-Methylethylbenzene	98-82-8	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed
• Benzene	71-43-2	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Kerosene	8008-20-6	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed

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

• Fuels, diesel, No. 2	68476-34-6	Not Listed
• 1,3-Butadiene	106-99-0	Not Listed
• Benzene, propyl-	103-65-1	Not Listed
• Naphthalene	91-20-3	Not Listed
• 1-Methylethylbenzene	98-82-8	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed
• Benzene	71-43-2	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Kerosene	8008-20-6	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed

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

• Fuels, diesel, No. 2	68476-34-6	Not Listed
• 1,3-Butadiene	106-99-0	0.1 % de minimis concentration
• Benzene, propyl-	103-65-1	Not Listed
• Naphthalene	91-20-3	0.1 % de minimis concentration
• 1-Methylethylbenzene	98-82-8	1.0 % de minimis concentration
• Ethylbenzene	100-41-4	0.1 % de minimis concentration
• Toluene	108-88-3	1.0 % de minimis concentration
• Xylene	1330-20-7	1.0 % de minimis concentration
• Benzene	71-43-2	0.1 % de minimis concentration
• 1,2,4-Trimethylbenzene	95-63-6	1.0 % de minimis concentration
• Kerosene	8008-20-6	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed

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

• Fuels, diesel, No. 2	68476-34-6	Not Listed
• 1,3-Butadiene	106-99-0	Not Listed
• Benzene, propyl-	103-65-1	Not Listed
• Naphthalene	91-20-3	Not Listed
• 1-Methylethylbenzene	98-82-8	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed
• Benzene	71-43-2	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Kerosene	8008-20-6	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed

United States - California

Environment

U.S. - California - Proposition 65 - Carcinogens List

• Fuels, diesel, No. 2	68476-34-6	Not Listed
------------------------	------------	------------

• 1,3-Butadiene	106-99-0	carcinogen, initial date 4/1/88
• Benzene, propyl-	103-65-1	Not Listed
• Naphthalene	91-20-3	carcinogen, initial date 4/19/02
• 1-Methylethylbenzene	98-82-8	carcinogen, initial date 4/6/10
• Ethylbenzene	100-41-4	carcinogen, initial date 6/11/04
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed
• Benzene	71-43-2	carcinogen, initial date 2/27/87
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Kerosene	8008-20-6	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed

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

• Fuels, diesel, No. 2	68476-34-6	Not Listed
• 1,3-Butadiene	106-99-0	developmental toxicity, initial date 4/16/04
• Benzene, propyl-	103-65-1	Not Listed
• Naphthalene	91-20-3	Not Listed
• 1-Methylethylbenzene	98-82-8	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Toluene	108-88-3	developmental toxicity, initial date 1/1/91
• Xylene	1330-20-7	Not Listed
• Benzene	71-43-2	developmental toxicity, initial date 12/26/97
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Kerosene	8008-20-6	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed

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

• Fuels, diesel, No. 2	68476-34-6	Not Listed
• 1,3-Butadiene	106-99-0	Not Listed
• Benzene, propyl-	103-65-1	Not Listed
• Naphthalene	91-20-3	Not Listed
• 1-Methylethylbenzene	98-82-8	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Toluene	108-88-3	7000 µg/day MADL (level represents absorbed dose)
• Xylene	1330-20-7	Not Listed
• Benzene	71-43-2	24 µg/day MADL (oral); 49 µg/day MADL (inhalation)
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Kerosene	8008-20-6	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed

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

• Fuels, diesel, No. 2	68476-34-6	Not Listed
• 1,3-Butadiene	106-99-0	0.4 µg/day NSRL
• Benzene, propyl-	103-65-1	Not Listed
• Naphthalene	91-20-3	5.8 µg/day NSRL
• 1-Methylethylbenzene	98-82-8	Not Listed
• Ethylbenzene	100-41-4	54 µg/day NSRL (inhalation); 41 µg/day NSRL (oral)
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed

• Benzene	71-43-2	6.4 µg/day NSRL (oral); 13 µg/day NSRL (inhalation)
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Kerosene	8008-20-6	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed
U.S. - California - Proposition 65 - Reproductive Toxicity - Female		
• Fuels, diesel, No. 2	68476-34-6	Not Listed
• 1,3-Butadiene	106-99-0	female reproductive toxicity, initial date 4/16/04
• Benzene, propyl-	103-65-1	Not Listed
• Naphthalene	91-20-3	Not Listed
• 1-Methylethylbenzene	98-82-8	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Toluene	108-88-3	female reproductive toxicity, initial date 8/7/09
• Xylene	1330-20-7	Not Listed
• Benzene	71-43-2	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Kerosene	8008-20-6	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed
U.S. - California - Proposition 65 - Reproductive Toxicity - Male		
• Fuels, diesel, No. 2	68476-34-6	Not Listed
• 1,3-Butadiene	106-99-0	Not Listed
• Benzene, propyl-	103-65-1	Not Listed
• Naphthalene	91-20-3	Not Listed
• 1-Methylethylbenzene	98-82-8	Not Listed
• Ethylbenzene	100-41-4	Not Listed
• Toluene	108-88-3	Not Listed
• Xylene	1330-20-7	Not Listed
• Benzene	71-43-2	male reproductive toxicity, initial date 12/26/97
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed
• Kerosene	8008-20-6	Not Listed
• 1,3,5-Trimethylbenzene	108-67-8	Not Listed

Other Information

- **WARNING:** This product contains a chemical known to the State of California to cause cancer, birth defects, or other reproductive harm.

Section 16 - Other Information

Revision Date

- 02/November/2015

Preparation Date

- 30/November/2010

Disclaimer/Statement of Liability

- 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
