

Safety Data Sheet



Section 1: Identification

Product identifier

Product Name

- **K-1 Kerosene 400ppm Sulfur Max**

Synonyms

- 1-K Kerosene 400 ppm Sulfur Max; 1-K Kerosine 400 ppm Sulfur Max; K-1 Kerosene; K-1 Kerosene, Non-Road Use, Undyed; Kerosene K-1; Kerosene K-1 400 ppm Sulfur Max; Kerosine K-1 400 ppm Sulfur Max

CAS Number

- 8008-20-6

SDS Number/Grade

- 0005NOR001

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

Recommended use

- Fuel

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

Telephone (General) • 651-459-9771

Emergency telephone number

Chemtrec

- 800-424-9300

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
Skin Irritation 2
Eye Irritation 2A
Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects

Label elements

OSHA HCS 2012

DANGER



- Hazard statements** • Flammable liquid and vapour
May be fatal if swallowed and enters airways
Causes skin irritation
Causes serious eye irritation
May cause drowsiness or dizziness

Precautionary statements

- Prevention** • 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.
Wash thoroughly after handling.
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: 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 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.
Do NOT induce vomiting.

- 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.
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Canada

According to: WHMIS

Classification of the substance or mixture

- WHMIS** • Combustible Liquids - B3
Other Toxic Effects - D2B

Label elements

WHMIS



- Combustible Liquids - B3
Other Toxic Effects - D2B

Other hazards

- WHMIS** • In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).
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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
Kerosene	CAS:8008-20-6	100%	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: Flam. Liq. 3; Skin Irrit. 2; Eye Irrit. 2A; Asp. Tox. 1;	NDA
Naphthalene [0.00071%]	CAS:91-20-3	0.00071%	Skin-Rabbit LD50 • >20 g/kg Ingestion/Oral-Rat LD50 • 490 mg/kg	OSHA HCS 2012: Exposure Limits	NDA
1-Methylethylbenzene [0.00071%]	CAS:98-82-8	0.00071%	Ingestion/Oral-Rat LD50 • 1400 mg/kg Skin-Rabbit LD50 • 12300 µL/kg Inhalation-Rat LC50 • 8000 ppm	OSHA HCS 2012: Exposure Limits	NDA
Ethylene glycol monobutyl ether [0.000071% TO 0.000213%]	CAS:111-76-2	0.000071% TO 0.000213%	Inhalation-Rat LC50 • 450 ppm 4 Hour(s) Skin-Rabbit LD50 • 220 mg/kg Ingestion/Oral-Rat LD50 • 250 mg/kg	OSHA HCS 2012: Exposure Limits	NDA
4-Methyl-2-pentanone [0.0000355% TO 0.000071%]	CAS:108-10-1	0.0000355% TO 0.000071%	Ingestion/Oral-Rat LD50 • 2080 mg/kg Inhalation-Rat LC50 • 100 g/m ³	OSHA HCS 2012: Exposure Limits	NDA
Ethylene glycol [0.0000071% TO 0.0000355%]	CAS:107-21-1	0.0000071% TO 0.0000355%	Ingestion/Oral-Rat LD50 • 470 mg/kg Skin-Rabbit LD50 • 9530 mg/kg	OSHA HCS 2012: Exposure Limits	NDA
1,2,4-Trimethylbenzene [0.00003124%]	CAS:95-63-6	0.00003124%	Ingestion/Oral-Rat LD50 • 5 g/kg Inhalation-Rat LC50 • 18000 mg/m ³ 4 Hour (s)	OSHA HCS 2012: Exposure Limits	NDA
o-Xylene [0.00000994%]	CAS:95-47-6	0.00000994%	Ingestion/Oral-Rat LD50 • 3567 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
Ethylene glycol (107-21-1)	Ceilings	100 mg/m ³ Ceiling (aerosol only)	Not established	Not established
o-Xylene (95-47-6)	STELs	150 ppm STEL	150 ppm STEL; 655 mg/m ³ STEL	Not established
	TWAs	100 ppm TWA	100 ppm TWA; 435 mg/m ³ TWA	Not established
1,2,4-Trimethylbenzene (95-63-6)	TWAs	Not established	25 ppm TWA; 125 mg/m ³ TWA	Not established
4-Methyl-2-pentanone (108-10-1)	TWAs	20 ppm TWA	50 ppm TWA; 205 mg/m ³ TWA	100 ppm TWA; 410 mg/m ³ TWA
	STELs	75 ppm STEL	75 ppm STEL; 300 mg/m ³ STEL	Not established
Ethylene glycol monobutyl ether (111-76-2)	TWAs	20 ppm TWA	5 ppm TWA; 24 mg/m ³ TWA	50 ppm TWA; 240 mg/m ³ TWA
Naphthalene (91-20-3)	TWAs	10 ppm TWA	10 ppm TWA; 50 mg/m ³ TWA	10 ppm TWA; 50 mg/m ³ TWA
	STELs	Not established	15 ppm STEL; 75 mg/m ³ STEL	Not established
1-Methylethylbenzene (98-82-8)	TWAs	50 ppm TWA	50 ppm TWA; 245 mg/m ³ TWA	50 ppm TWA; 245 mg/m ³ TWA

Kerosene (8008-20-6)	TWAs	200 mg/m ³ TWA (application restricted to conditions in which there are negligible aerosol exposures, total hydrocarbon vapor)	100 mg/m ³ TWA	Not established
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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

STEL = Short Term Exposure Limits are based on 15-minute exposures

NIOSH = National Institute of Occupational Safety and Health

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

OSHA = Occupational Safety and Health Administration

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	A clear to amber liquid with a slight hydrocarbon odor.
Color	Clear to amber.	Odor	Slight hydrocarbon odor.
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		
Kerosene (100%)	8008-20-6	Acute Toxicity: Ingestion/Oral-Rat LD50 • 15 g/kg; <i>Skin and Appendages:After topical exposure:Corrosive;</i> Irritation: Skin-Rabbit • 500 mg • Severe irritation

GHS Properties	Classification
Respiratory sensitization	OSHA HCS 2012 • No data available
Serious eye damage/Irritation	OSHA HCS 2012 • Eye Irritation 2A
Acute toxicity	OSHA HCS 2012 • No data available
Aspiration Hazard	OSHA HCS 2012 • Aspiration 1
Carcinogenicity	OSHA HCS 2012 • No data available
Skin corrosion/Irritation	OSHA HCS 2012 • Skin Irritation 2
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) • Causes skin irritation.

Chronic (Delayed) • No data available.

Eye

Acute (Immediate) • Causes serious eye irritation.

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

• This material does contain a component that may cause cancer, however this material as a whole is not classified as a carcinogen.

Carcinogenic Effects			
	CAS	IARC	NTP
4-Methyl-2-pentanone	108-10-1	Group 2B-Possible Carcinogen	Not Listed
1-Methylethylbenzene	98-82-8	Group 2B-Possible Carcinogen	Reasonably Anticipated to be Human Carcinogen
Naphthalene	91-20-3	Group 2B-Possible Carcinogen	Reasonably Anticipated to be Human Carcinogen
Kerosene as Exhaust, diesel	NDA	Group 1-Carcinogenic	Reasonably Anticipated to be Human Carcinogen

Key to abbreviations

LD = Lethal 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	UN1223	Kerosene	3	III	NDA
TDG	UN1223	KEROSENE	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-Methylethylbenzene	98-82-8	Yes	No	Yes
4-Methyl-2-pentanone	108-10-1	Yes	No	Yes
Ethylene glycol	107-21-1	Yes	No	Yes
Ethylene glycol monobutyl ether	111-76-2	Yes	No	Yes
Kerosene	8008-20-6	Yes	No	Yes
Naphthalene	91-20-3	Yes	No	Yes
o-Xylene	95-47-6	Yes	No	Yes

Canada

Labor

Canada - WHMIS - Classifications of Substances

• Kerosene	8008-20-6	B3, D2B
• o-Xylene	95-47-6	B2, D2B
• Naphthalene	91-20-3	B4, D2A
• Ethylene glycol monobutyl ether	111-76-2	B3, D1A, D2B
• 1-Methylethylbenzene	98-82-8	B2, D2A
• 4-Methyl-2-pentanone	108-10-1	B2, D2A
• Ethylene glycol	107-21-1	D1B, D2A
• 1,2,4-Trimethylbenzene	95-63-6	B3

Canada - WHMIS - Ingredient Disclosure List

• Kerosene	8008-20-6	Not Listed
• o-Xylene	95-47-6	1 %
• Naphthalene	91-20-3	1 %
• Ethylene glycol monobutyl ether	111-76-2	1 %

• 1-Methylethylbenzene	98-82-8	1 %
• 4-Methyl-2-pentanone	108-10-1	1 %
• Ethylene glycol	107-21-1	1 %
• 1,2,4-Trimethylbenzene	95-63-6	0.1 %

Environment

Canada - CEPA - Priority Substances List

• Kerosene	8008-20-6	Not Listed
• o-Xylene	95-47-6	Not Listed
• Naphthalene	91-20-3	Not Listed
• Ethylene glycol monobutyl ether	111-76-2	Priority Substance List 2 (substance considered toxic, added to CEPA's Schedule 1, List of Toxic Substances)
• 1-Methylethylbenzene	98-82-8	Not Listed
• 4-Methyl-2-pentanone	108-10-1	Not Listed
• Ethylene glycol	107-21-1	Priority Substance List 2 (substance not considered toxic)
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed

United States

Labor

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

• Kerosene	8008-20-6	Not Listed
• o-Xylene	95-47-6	Not Listed
• Naphthalene	91-20-3	Not Listed
• Ethylene glycol monobutyl ether	111-76-2	Not Listed
• 1-Methylethylbenzene	98-82-8	Not Listed
• 4-Methyl-2-pentanone	108-10-1	Not Listed
• Ethylene glycol	107-21-1	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

• Kerosene	8008-20-6	Not Listed
• o-Xylene	95-47-6	Not Listed
• Naphthalene	91-20-3	Not Listed
• Ethylene glycol monobutyl ether	111-76-2	Not Listed
• 1-Methylethylbenzene	98-82-8	Not Listed
• 4-Methyl-2-pentanone	108-10-1	Not Listed
• Ethylene glycol	107-21-1	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed

Environment

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

• Kerosene	8008-20-6	Not Listed
• o-Xylene	95-47-6	
• Naphthalene	91-20-3	
• Ethylene glycol monobutyl ether	111-76-2	Not Listed
• 1-Methylethylbenzene	98-82-8	
• 4-Methyl-2-pentanone	108-10-1	
• Ethylene glycol	107-21-1	
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

• Kerosene	8008-20-6	Not Listed
• o-Xylene	95-47-6	1000 lb final RQ; 454 kg final RQ
• Naphthalene	91-20-3	100 lb final RQ; 45.4 kg final RQ
• Ethylene glycol monobutyl ether	111-76-2	Not Listed
• 1-Methylethylbenzene	98-82-8	5000 lb final RQ; 2270 kg final RQ
• 4-Methyl-2-pentanone	108-10-1	5000 lb final RQ; 2270 kg final RQ
• Ethylene glycol	107-21-1	5000 lb final RQ; 2270 kg final RQ
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed

U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

• Kerosene	8008-20-6	Not Listed
• o-Xylene	95-47-6	Not Listed
• Naphthalene	91-20-3	Not Listed
• Ethylene glycol monobutyl ether	111-76-2	Not Listed
• 1-Methylethylbenzene	98-82-8	Not Listed
• 4-Methyl-2-pentanone	108-10-1	Not Listed
• Ethylene glycol	107-21-1	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed

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

• Kerosene	8008-20-6	Not Listed
• o-Xylene	95-47-6	Not Listed
• Naphthalene	91-20-3	Not Listed
• Ethylene glycol monobutyl ether	111-76-2	Not Listed
• 1-Methylethylbenzene	98-82-8	Not Listed
• 4-Methyl-2-pentanone	108-10-1	Not Listed
• Ethylene glycol	107-21-1	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed

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

• Kerosene	8008-20-6	Not Listed
• o-Xylene	95-47-6	Not Listed
• Naphthalene	91-20-3	Not Listed
• Ethylene glycol monobutyl ether	111-76-2	Not Listed
• 1-Methylethylbenzene	98-82-8	Not Listed
• 4-Methyl-2-pentanone	108-10-1	Not Listed
• Ethylene glycol	107-21-1	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed

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

• Kerosene	8008-20-6	Not Listed
• o-Xylene	95-47-6	1.0 % de minimis concentration
• Naphthalene	91-20-3	0.1 % de minimis concentration
• Ethylene glycol monobutyl ether	111-76-2	Not Listed
• 1-Methylethylbenzene	98-82-8	1.0 % de minimis concentration

• 4-Methyl-2-pentanone	108-10-1	1.0 % de minimis concentration
• Ethylene glycol	107-21-1	1.0 % de minimis concentration
• 1,2,4-Trimethylbenzene	95-63-6	1.0 % de minimis concentration

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

• Kerosene	8008-20-6	Not Listed
• o-Xylene	95-47-6	Not Listed
• Naphthalene	91-20-3	Not Listed
• Ethylene glycol monobutyl ether	111-76-2	Not Listed
• 1-Methylethylbenzene	98-82-8	Not Listed
• 4-Methyl-2-pentanone	108-10-1	Not Listed
• Ethylene glycol	107-21-1	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed

United States - California**Environment****U.S. - California - Proposition 65 - Carcinogens List**

• Kerosene	8008-20-6	Not Listed
• o-Xylene	95-47-6	Not Listed
• Naphthalene	91-20-3	carcinogen, initial date 4/19/02
• Ethylene glycol monobutyl ether	111-76-2	Not Listed
• 1-Methylethylbenzene	98-82-8	carcinogen, initial date 4/6/10
• 4-Methyl-2-pentanone	108-10-1	carcinogen, initial date 11/4/11
• Ethylene glycol	107-21-1	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed

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

• Kerosene	8008-20-6	Not Listed
• o-Xylene	95-47-6	Not Listed
• Naphthalene	91-20-3	Not Listed
• Ethylene glycol monobutyl ether	111-76-2	Not Listed
• 1-Methylethylbenzene	98-82-8	Not Listed
• 4-Methyl-2-pentanone	108-10-1	developmental toxicity, initial date 3/28/14
• Ethylene glycol	107-21-1	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed

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

• Kerosene	8008-20-6	Not Listed
• o-Xylene	95-47-6	Not Listed
• Naphthalene	91-20-3	Not Listed
• Ethylene glycol monobutyl ether	111-76-2	Not Listed
• 1-Methylethylbenzene	98-82-8	Not Listed
• 4-Methyl-2-pentanone	108-10-1	Not Listed
• Ethylene glycol	107-21-1	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed

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

• Kerosene	8008-20-6	Not Listed
• o-Xylene	95-47-6	Not Listed
• Naphthalene	91-20-3	5.8 µg/day NSRL

• Ethylene glycol monobutyl ether	111-76-2	Not Listed
• 1-Methylethylbenzene	98-82-8	Not Listed
• 4-Methyl-2-pentanone	108-10-1	Not Listed
• Ethylene glycol	107-21-1	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Female

• Kerosene	8008-20-6	Not Listed
• o-Xylene	95-47-6	Not Listed
• Naphthalene	91-20-3	Not Listed
• Ethylene glycol monobutyl ether	111-76-2	Not Listed
• 1-Methylethylbenzene	98-82-8	Not Listed
• 4-Methyl-2-pentanone	108-10-1	Not Listed
• Ethylene glycol	107-21-1	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Male

• Kerosene	8008-20-6	Not Listed
• o-Xylene	95-47-6	Not Listed
• Naphthalene	91-20-3	Not Listed
• Ethylene glycol monobutyl ether	111-76-2	Not Listed
• 1-Methylethylbenzene	98-82-8	Not Listed
• 4-Methyl-2-pentanone	108-10-1	Not Listed
• Ethylene glycol	107-21-1	Not Listed
• 1,2,4-Trimethylbenzene	95-63-6	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

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Key to abbreviations

NDA = No data available