

# SAFETY DATA SHEET

## 1. Identification

### Identification

**Product name:** LUBRIZOL® 9047C

### Additional identification

**Chemical name:** Mixture

### Recommended use and restriction on use

**Recommended use:** Miscellaneous fuel additive

**Restrictions on use:** None identified.

### Details of the supplier of the safety data sheet

#### Supplier

**Company Name:** THE LUBRIZOL CORPORATION  
**Address:** 29400 LAKELAND BOULEVARD  
WICKLIFFE, OH 44092-2298  
US  
**Telephone:** (440)943-1200

### Emergency telephone number:

FOR TRANSPORT EMERGENCY CALL CHEMTREC (+1)703 527 3887, OR WITHIN USA 800 424 9300

## 2. Hazard(s) identification

### Hazard Classification

#### Physical Hazards

Flammable liquids Category 4

#### Health Hazards

Acute toxicity (Oral) Category 4

Acute toxicity (Inhalation - dust and mist) Category 4

Carcinogenicity Category 2

Specific Target Organ Toxicity - Single Exposure Category 3

Aspiration Hazard Category 1

#### Unknown toxicity

Acute toxicity, oral 0.0 %

Acute toxicity, dermal 0.0 %

Acute toxicity, inhalation, vapor 64.5 %

Acute toxicity, inhalation, dust or mist 19.2 %

### Label Elements:

**Hazard Symbol:**



**Signal Word:** Danger

**Hazard Statement:** Combustible liquid.  
Harmful if swallowed or if inhaled.  
Suspected of causing cancer.  
May cause drowsiness or dizziness.  
May be fatal if swallowed and enters airways.

**Precautionary Statements:**

**Prevention:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.

**Response:** IF INHALED: Remove person to fresh air and keep comfortable for breathing. Rinse mouth. IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. Call a POISON CENTER/doctor if you feel unwell. In case of fire: Use CO2, dry chemical or foam to extinguish. Water can be used to cool and protect exposed material.

**Storage:** Store in a well-ventilated place. Keep cool. Store locked up. Keep container tightly closed.

**Disposal:** Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**Other hazards which do not result in GHS classification:** None identified.

### 3. Composition/information on ingredients

Chemical name	CAS number	Percent by Weight
2-Ethylhexyl nitrate	27247-96-7	40 - 50%
Petroleum naphtha	64742-94-5	20 - 30%
1,2,4-trimethylbenzene	95-63-6	1 - 5%
2-Ethylhexanol	104-76-7	1 - 5%

Naphthalene	91-20-3	1 - 5%
1,3,5-Trimethylbenzene	108-67-8	1 - 5%
++ 1,2,3-Trimethyl benzene	526-73-8	1 - 5%

++ The listed components are subcomponents of the hazardous ingredients listed above.

#### 4. First-aid measures

- General information:** IF exposed or concerned: Get medical advice/attention.
- Ingestion:** Do NOT induce vomiting. Aspiration of material due to vomiting can cause chemical pneumonitis which can be fatal. If vomiting occurs naturally, the casualty should lean forward to reduce the risk of aspiration. Rinse mouth. Immediately call a POISON CENTER/doctor.
- Inhalation:** Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
- Skin Contact:** Take off contaminated clothing and wash before re-use. Wash with soap and water. Call a POISON CENTER/doctor if you feel unwell. Launder contaminated clothing before reuse.
- Eye contact:** Flush thoroughly with water. If irritation occurs, get medical assistance. Remove contact lenses, if present and easy to do. Continue rinsing.

#### Most important symptoms/effects, acute and delayed

**Symptoms:** Symptoms may be delayed.

#### Indication of immediate medical attention and special treatment needed

**Treatment:** Treat symptomatically.

#### 5. Fire-fighting measures

- General Fire Hazards:** Move containers from fire area if you can do so without risk.
- Suitable (and unsuitable) extinguishing media**
- Suitable extinguishing media:** CO<sub>2</sub>, Dry chemical or Foam. Water can be used to cool and protect exposed material.
- Unsuitable extinguishing media:** Do not use water jet as an extinguisher, as this will spread the fire.
- Specific hazards arising from the chemical:** Vapors may cause a flash fire or ignite explosively. Prevent buildup of vapors or gases to explosive concentrations. Vapors may travel considerable distance to a source of ignition and flash back. Water may cause splattering. Container may rupture on heating. A solid stream of water will spread the burning material. Material creates a special hazard because it floats on water. See section 10 for additional information.

#### Special protective equipment and precautions for firefighters

**Special fire fighting procedures:** No data available.

**Special protective equipment for fire-fighters:** Wear full protective firegear including self-containing breathing apparatus operated in the positive pressure mode with full facepiece, coat, pants, gloves and boots.

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures:** Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep upwind. Keep unauthorized personnel away. See Section 8 of the SDS for Personal Protective Equipment.

**Methods and material for containment and cleaning up:** In case of leakage, eliminate all ignition sources. Dike far ahead of larger spill for later recovery and disposal. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material. Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer, basements or confined areas.

**Environmental Precautions:** Avoid release to the environment. Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.

## 7. Handling and storage

**Precautions for safe handling:** Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid breathing dust/fume/gas/mist/vapors/spray. Observe good industrial hygiene practices. Use only in well-ventilated areas. Use personal protective equipment as required. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Launder contaminated clothing before reuse. Avoid environmental contamination. DO NOT HEAT.

**Maximum Handling Temperature:** 55 °C 131 °F

**Conditions for safe storage, including any incompatibilities:** Keep at temperature not exceeding 40°C. Keep cool. Store in a well-ventilated place. Store away from incompatible materials. See section 10 for incompatible materials. Do not store near potential sources of ignition.

**Maximum Storage Temperature:** 45 °C 113 °F

**8. Exposure controls/personal protection**

**Control Parameters:**

**Occupational Exposure Limits**

Chemical name	Type	Exposure Limit Values	Source
Petroleum naphtha - Non-aerosol. - as total hydrocarbon vapor	TWA	200 mg/m3	US. ACGIH Threshold Limit Values (03 2014)
Petroleum naphtha	REL	100 ppm 400 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
Petroleum naphtha	REL	100 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
Petroleum naphtha	PEL	100 ppm 400 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Petroleum naphtha	TWA	100 ppm 400 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
1,2,4-trimethylbenzene	TWA	25 ppm	US. ACGIH Threshold Limit Values (02 2012)
1,2,4-trimethylbenzene	REL	25 ppm 125 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
Naphthalene	TWA	10 ppm	US. ACGIH Threshold Limit Values (02 2012)
Naphthalene	STEL	15 ppm 75 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
Naphthalene	REL	10 ppm 50 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
Naphthalene	PEL	10 ppm 50 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
1,3,5-Trimethylbenzene	TWA	25 ppm	US. ACGIH Threshold Limit Values (02 2012)
1,3,5-Trimethylbenzene	REL	25 ppm 125 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)

**Other exposure limits**

Chemical name	Type	Exposure Limit Values	Source
2-Ethylhexyl nitrate	TWA	1 ppm	

**Appropriate engineering controls:**

Mechanical ventilation or local exhaust ventilation is required. Material should be handled in enclosed vessels and equipment, in which case general (mechanical) room ventilation should be sufficient. Local exhaust ventilation should be used at points where dust, mist, vapors or gases can escape into the room air. Adequate ventilation should be provided so that exposure limits are not exceeded.

**Individual protection measures, such as personal protective equipment**

**General information:**

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory and eye protection may be needed in special circumstances, such as poorly ventilated spaces, heating, evaporation of liquids from large surfaces, spraying of mists, mechanical generation of dusts, drying of solids, etc.

**Eye/face protection:**

Safety glasses. If potential for splash or mist exists, wear chemical goggles or faceshield.

**Skin Protection**

**Hand Protection:** Use nitrile or neoprene gloves. Use good industrial hygiene practices. In case of skin contact, wash hands and arms with soap and water. Polyvinyl alcohol. Note: polyvinyl alcohol gloves are water soluble and should not be used when there is potential for water contact. Chemical resistant gloves

**Other:** Gloves, coveralls, apron, boots as necessary to minimize contact. Wear apron or protective clothing in case of contact.

**Respiratory Protection:** A respiratory protection program compliant with all applicable regulations must be followed whenever workplace conditions require the use of a respirator. Under normal use conditions, respirator is not usually required. Use appropriate respiratory protection if exposure to dust particles, mist or vapors is likely. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites. Use respirator with a combination organic vapor and dust/mist cartridge.

**Hygiene measures:** Observe good industrial hygiene practices. Do not eat, drink or smoke when using the product. When using do not smoke. Wash hands before breaks and immediately after handling the product. Wash hands after handling.

**9. Physical and chemical properties****Appearance**

<b>Physical state:</b>	liquid
<b>Form:</b>	liquid
<b>Color:</b>	Dark brown
<b>Odor:</b>	Pungent
<b>Odor threshold:</b>	No data available.
<b>pH:</b>	No data available.
<b>Freezing point:</b>	No data available.
<b>Boiling Point:</b>	No data available.
<b>Flash Point:</b>	144 °F (62 °C) (Pensky-Martens Closed Cup)
<b>Evaporation rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	No data available.
<b>Upper/lower limit on flammability or explosive limits</b>	
<b>Flammability limit - upper (%):</b>	No data available.
<b>Flammability limit - lower (%):</b>	No data available.
<b>Explosive limit - upper (%):</b>	No data available.
<b>Explosive limit - lower (%):</b>	No data available.
<b>Vapor pressure:</b>	No data available.
<b>Vapor density:</b>	No data available.
<b>Relative density:</b>	0.921 - 0.961 60.1 °F (15.6 °C)
<b>Solubility(ies)</b>	
<b>Solubility in water:</b>	Insoluble in water
<b>Solubility (other):</b>	No data available.

<b>Partition coefficient (n-octanol/water):</b>	No data available.
<b>Auto-ignition temperature:</b>	No data available.
<b>Decomposition temperature:</b>	No data available.
<b>Viscosity:</b>	5 mm <sup>2</sup> /s ( 104 °F (40 °C) ) 15 mm <sup>2</sup> /s (0 °C (32 °F) )
<b>Other information</b>	
<b>Pour Point Temperature:</b>	-71 °F (-57 °C)

## 10. Stability and reactivity

<b>Reactivity:</b>	No data available.
<b>Chemical Stability:</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions:</b>	Will not occur.
<b>Conditions to avoid:</b>	Heat may cause the containers to explode. Heat, sparks, flames.
<b>Incompatible Materials:</b>	Strong oxidizing agents.
<b>Hazardous Decomposition Products:</b>	Thermal decomposition or combustion may generate smoke, carbon monoxide, carbon dioxide, nitrogen oxides, and other products of incomplete combustion.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation:</b>	Harmful if inhaled.
<b>Ingestion:</b>	Harmful if swallowed.
<b>Skin Contact:</b>	May be harmful in contact with skin. Causes mild skin irritation.
<b>Eye contact:</b>	No data available.

### Information on toxicological effects

#### Acute toxicity

##### Oral

Product: Ingestion of 2-ethylhexyl nitrate may cause vasodilation resulting in reduced blood pressure and other cardiovascular effects. Symptoms include headache, dizziness, nausea, fatigue, heart palpitations, confusion and possible loss of consciousness. Material can be aspirated into the lungs during the act of swallowing or vomiting. This could result in severe injury to the lungs and death. Ingestion can cause central nervous system effects such as headache, dizziness, drowsiness, and generalized weakness. Swallowing material may cause irritation of the gastrointestinal lining, nausea, vomiting, diarrhea, and abdominal pain. ATEmix 300 - 2,000 mg/kg.

##### Dermal

Product: Absorption of 2-ethylhexyl nitrate through the skin may cause

vasodilation resulting in reduced blood pressure and other cardiovascular effects. Symptoms include headache, dizziness, nausea, fatigue, heart palpitations, confusion and possible loss of consciousness. Prolonged or widespread contact with this material could result in the absorption of potentially harmful amounts. ATEmix > 2,000 mg/kg

**Inhalation**

Product:

Inhalation of 2-ethylhexyl nitrate may cause vasodilation resulting in reduced blood pressure and other cardiovascular effects. Symptoms include headache, dizziness, nausea, fatigue, heart palpitations, confusion and possible loss of consciousness. Repeated overexposure to petroleum naphtha can cause nervous system damage. High concentrations may cause headaches, dizziness, nausea, behavioral changes, weakness, drowsiness and stupor.

ATEmix (, 4 h): 2 - 5 mg/l. Dusts, mists and fumes

Inhalation of 2-ethylhexyl nitrate may cause vasodilation resulting in reduced blood pressure and other cardiovascular effects. Symptoms include headache, dizziness, nausea, fatigue, heart palpitations, confusion and possible loss of consciousness. Repeated overexposure to petroleum naphtha can cause nervous system damage. High concentrations may cause headaches, dizziness, weakness, and nausea. High concentrations may cause headaches, dizziness, nausea, behavioral changes, weakness, drowsiness and stupor.

**Skin Corrosion/Irritation:**

Product:

Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying, and cracking of the skin. Alcohol may enhance the toxic effects. Prolonged or repeated contact may cause irritation. Remarks: Causes mild skin irritation.

**Serious Eye Damage/Eye Irritation:**

Product:

Remarks: Not classified as a primary eye irritant.

**Respiratory sensitization:**

No data available

**Skin sensitization:**

2-Ethylhexyl nitrate

Classification: Not a skin sensitizer. (Literature)

Petroleum naphtha

Classification: Not a skin sensitizer. (Literature)

2-Ethylhexanol

Classification: Not a skin sensitizer. (Literature)

**Specific Target Organ Toxicity - Single Exposure:**

Product:

If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract.



2-Ethylhexyl nitrate	If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract.
Petroleum naphtha	If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract.
1,2,4-trimethylbenzene	Nose, throat and lung irritant.
2-Ethylhexanol	Respiratory tract irritation.
1,3,5-Trimethylbenzene	May cause irritation to the mucous membranes and upper respiratory tract.
++ 1,2,3-Trimethyl benzene	Nose, throat and lung irritant.

**Aspiration Hazard:**

Product: May be fatal if swallowed and enters airways.

**Other effects:**

2-Ethylhexyl nitrate	Alcohol may enhance the toxic effects.
Petroleum naphtha	Narcotic effect.
Naphthalene	Blood

**Chronic Effects****Carcinogenicity:**

Product: Not available.

Naphthalene  
A two-year National Toxicology Program (NTP) study found an increased incidence of nasal tumors in rats exposed to naphthalene by inhalation. In mice similarly exposed, increased incidences of alveolar/bronchiolar adenomas were observed.

**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

Naphthalene Overall evaluation: 2B. Possibly carcinogenic to humans.

**US. National Toxicology Program (NTP) Report on Carcinogens:**

Naphthalene Reasonably Anticipated to be a Human Carcinogen.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):**

No carcinogenic components identified

**Germ Cell Mutagenicity:**

2-Ethylhexyl nitrate  
This material has not exhibited mutagenic or genotoxic potential in laboratory tests.

2-Ethylhexanol	This material has not exhibited mutagenic or genotoxic potential in laboratory tests.
Naphthalene	Naphthalene has caused mutagenic effects in in vitro studies with metabolic activation, however, in vivo studies do not show evidence of germ cell mutagenicity.

**Reproductive toxicity:**

2-Ethylhexanol	No evidence of adverse effects were found in a developmental toxicity study of 2-ethylhexanol in rats. Doses up to 3 ml/kg applied to the skin during the most critical part of the gestation period produced evidence of toxicity to mothers, but no evidence of injury in the developing offspring. In a previous study, birth defects were observed by oral administration, an unlikely route of exposure in the workplace.
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**Specific Target Organ Toxicity - Repeated Exposure:**

2-Ethylhexyl nitrate	Prolonged exposure to 2-ethylhexyl nitrate may cause vasodilation resulting in reduced blood pressure and other cardiovascular effects. Symptoms include headache, dizziness, nausea, fatigue, heart palpitations, confusion and possible loss of consciousness.
Petroleum naphtha	Repeated overexposure to petroleum naphtha can cause nervous system damage.
2-Ethylhexanol	Repeated overexposure may result in liver and kidney damage. A 14-day dermal toxicity study of 2-ethylhexanol in rats showed blood effects, decreased spleen weight and decreased triglycerides. Unknown: Target Organ(s): Blood, Liver, Spleen., Kidney
Naphthalene	Repeated overexposure to naphthalene may cause cataracts. Repeated overexposure to naphthalene may cause destruction of red blood cells with anemia, fever, jaundice and kidney and liver damage.

<b>12. Ecological information</b>
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**Ecotoxicity**

**Fish**

2-Ethylhexyl nitrate	LC 50 (Zebra Fish, 4 d): 2 mg/l NOEC (Zebra Fish, 4 d): 1.52 mg/l
Petroleum naphtha	LC 50 (Rainbow Trout, 4 Days): 2 mg/l
1,2,4-trimethylbenzene	LC 50 (Fathead Minnow, 4 Days): 7.72 mg/l
2-Ethylhexanol	LC 50 (Fathead Minnow, 4 d): 28.2 mg/l LC 50 (Golden Orfe, 4 d): 17.1 mg/l NOEC (Golden Orfe, 4 d): 14 mg/l

**Aquatic Invertebrates**

2-Ethylhexyl nitrate	EC 50 (Water flea (Daphnia magna), 2 d): > 12.6 mg/l
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Petroleum naphtha	EC 50 (Water flea (Daphnia magna), 2 d): 3 mg/l
1,2,4-trimethylbenzene	EC 50 (Water flea (Daphnia magna), 2 d): 3.6 mg/l
2-Ethylhexanol	EC 50 (Water flea (Daphnia magna), 2 d): 39 mg/l
1,3,5-Trimethylbenzene	EC 50 (Water flea (Daphnia magna), 2 d): 6 mg/l

**Toxicity to Aquatic Plants**

2-Ethylhexyl nitrate	EC 50 (Alga, 3 d): 3.22 mg/l
Petroleum naphtha	EC 50 (Green algae (Selenastrum capricornutum), 4 d): 1.1 mg/l
2-Ethylhexanol	EC 50 (Green algae (Scenedesmus quadricauda), 3 d): 16.6 mg/l
1,3,5-Trimethylbenzene	EC 50 (Green algae (Scenedesmus quadricauda), 2 Days): 25 mg/l

**Toxicity to soil dwelling organisms**

No data available

**Sediment Toxicity**

No data available

**Toxicity to Terrestrial Plants**

No data available

**Toxicity to Above-Ground Organisms**

No data available

**Toxicity to microorganisms**

2-Ethylhexyl nitrate	EC 50 (Sludge, 0.3 d): > 1,000 mg/l
2-Ethylhexanol	EC 50 (Pseudomonas putida, 0.1 d): 540 mg/l EC 50 (Sludge, 0.5 d): > 100 mg/l

**Persistence and Degradability**

**Biodegradation**

2-Ethylhexyl nitrate	Miscellaneous, 0 %, 28 d, Not readily degradable.
Petroleum naphtha	OECD TG 301 F, 58 %, 28 d, Not readily degradable.
2-Ethylhexanol	OECD TG 302 B, 95 %, 5 d, Readily biodegradable OECD TG 301 C, 100 %, 14 d, Readily biodegradable

**Bioaccumulative Potential**

**Bioconcentration Factor (BCF)**

2-Ethylhexanol	Bioconcentration Factor (BCF): 25.35 (calculated)
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**Partition Coefficient n-octanol / water (log Kow)**

2-Ethylhexyl nitrate	Log Kow: 5.24 (Measured)
1,2,4-trimethylbenzene	Log Kow: 3.63 (calculated)
2-Ethylhexanol	Log Kow: 2.9 (Measured)

**Mobility:**

2-Ethylhexyl nitrate soil - 3.75

2-Ethylhexanol soil - 1.42

**Other Adverse Effects:**

No data available.

**13. Disposal considerations****Disposal instructions:**

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Dispose of packaging or containers in accordance with local, regional, national and international regulations. Empty container contains product residue which may exhibit hazards of product.

**Contaminated Packaging:**

Container packaging may exhibit hazards.

**14. Transport information****DOT**

UN Number:	NA 1993
UN Proper Shipping Name:	Combustible liquid, n.o.s.(2-Ethylhexyl nitrate, Petroleum naphtha)
Transport Hazard Class(es)	
Class:	CBL
Label(s):	NONE
Packing Group:	III
Marine Pollutant:	Yes
Special precautions for user:	None established
Reportable quantity	Naphthalene 100 lbs

**IMDG**

UN Number:	UN 3082
UN Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(2-Ethylhexyl nitrate, Naphthalene)
Transport Hazard Class(es)	
Class:	9
Label(s):	9
EmS No.:	F-A, S-F
Packing Group:	III
Marine Pollutant:	Yes
Limited quantity	5.00L
Excepted quantity	E1
Special precautions for user:	None established

**IATA**

UN Number:	UN 3082
Proper Shipping Name:	Environmentally hazardous substance, liquid, n.o.s.(2-Ethylhexyl nitrate, Naphthalene)
Transport Hazard Class(es):	
Class:	9
Label(s):	9MI
Marine Pollutant:	Yes
Packing Group:	III
Limited quantity	30.00KG
Excepted quantity	E1
Environmental Hazards	Marine Pollutant
Special precautions for user:	None established
Other information	
Passenger and cargo aircraft:	Allowed.
Cargo aircraft only:	Allowed.

**Transport in bulk according to Annex II of MARPOL and the IBC Code**

None known.

The DOT shipping information in this section is based on a bulk container. Please review the accompanying shipping papers for the correct shipping descriptions based the size of the package. Shipping descriptions may vary based on mode of transport, quantities, temperature of the material, package size, and/or origin and destination. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material. During transportation, steps must be taken to prevent load shifting or materials falling, and all relating legal statutes should be obeyed. Review classification requirements before shipping materials at elevated temperatures.

**15. Regulatory information**

**US Federal Regulations**

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

None present or none present in regulated quantities.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

<b>Chemical Identity</b>	<b>CAS number</b>	<b>Reportable quantity</b>	<b>Calculated<sup>1</sup></b>
Naphthalene	91-20-3	100 lbs	3374 lbs 1531 kgs
Xylene	1330-20-7	100 lbs	> 50000 lbs > 22680 kgs
Cumene	98-82-8	5000 lbs	> 50000 lbs > 22680 kgs
Propylene oxide	75-56-9	100 lbs	> 50000 lbs > 22680 kgs

<sup>1</sup>This is the amount product/material required to be released before CERCLA reporting is required.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**SARA 311 Classifications**

- Flammable (gases, aerosols, liquids, or solids)
- Acute toxicity (any route of exposure)
- Carcinogenicity
- Specific target organ toxicity (single or repeated exposure)

Aspiration Hazard

**SARA 302 Extremely Hazardous Substance**

None present or none present in regulated quantities.

**SARA 304 Emergency Release Notification**

<u>Chemical Identity</u>	<u>CAS number</u>	<u>Percent by Weight</u>	<u>Reportable quantity</u>
Naphthalene	91-20-3	3.0 %	100 lbs
Xylene	1330-20-7	53.0 PPM	100 lbs
Cumene	98-82-8	53.0 PPM	5000 lbs
Propylene oxide	75-56-9	30.0 PPM	100 lbs

**SARA 313 (TRI Reporting)**

<u>Chemical Identity</u>	<u>CAS number</u>	<u>Percent by Weight</u>	<u>Reporting threshold for other uses</u>	<u>Reporting threshold for manufacturing and processing</u>
1,2,4-trimethylbenzene	95-63-6	4.5 %	10000 lbs	25000 lbs
Naphthalene	91-20-3	3.0 %	10000 lbs	25000 lbs

**US State Regulations**

**US. California Proposition 65**

WARNING: This product can expose you to chemicals including: Naphthalene (2.964%) Cumene (53.00PPM) Propylene oxide (30.00PPM) ++ Benzene (296.00PPB) Ethylene oxide (3.00PPB) Methanol (296.00PPT) This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

**Inventory Status**

**Australia (AICS)**

All components are in compliance with chemical notification requirements in Australia.

**Canada (DSL/NDL)**

All substances contained in this product are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List (DSL) or are exempt.

**China (IECSC)**

This product contains a substance or polymer that has been notified and is restricted to import by the notifier.

**European Union (REACH)**

To obtain information on the REACH compliance status of this product, please e-mail REACH@SDSInquiries.com.

**Japan (ENCS)**

This product contains a substance or polymer that has been notified and is restricted to import by specific legal entities.

**Korea (ECL)**

All components are in compliance in Korea.

**New Zealand (NZIoC)**

All components are in compliance with chemical notification requirements in New Zealand.

**Philippines (PICCS)**

This product requires notification before sale in the Philippines.

**Switzerland (SWISS)**

May require notification before sale in Switzerland.

**Taiwan (TCSCA)**

All components of this product are listed on the Taiwan inventory.

**United States (TSCA)**

All substances contained in this product are listed on the TSCA inventory or are exempt.

*The information that was used to confirm the compliance status of this product may deviate from the chemical information shown in Section 3.*

**16. Other information, including date of preparation or last revision**

**HMIS Hazard ID**

<b>Health</b>	*	2
<b>Flammability</b>	2	
<b>Physical Hazards</b>	0	

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; \*Chronic health effect

**NFPA Hazard ID**



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible

**Issue Date:** 08/27/2018  
**Version #:** 2.1  
**Source of information:** Internal company data and other publically available resources.  
**Further Information:** Contact supplier (see Section 1)

**Disclaimer:**

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local regulations remains the responsibility of the user.