



Prepared according to Commission Regulation (EU) No 453/2010.

<b>Section 1</b>	<b>Identification of substance/mixture and of the company/undertaking</b>
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**1.1 Product Identifier****LUBRIZOL® 9041F**

**Synonyms** None.

**1.2 Relevant identified uses of the substance or mixture and (uses advised against)**

**Relevant identified uses (see section 7.3 for information on REACH registered uses)**

Miscellaneous fuel additive.

**1.3 Details of the supplier of the safety data sheet**

The Lubrizol Corporation  
29400 Lakeland Boulevard  
Wickliffe, Ohio 44092  
Tel: (440) 943-4200

**E-mail contact** EUSDS@lubrizol.com

**1.4 Emergency Telephone number**

FOR TRANSPORT EMERGENCY call CHEMTREC: (+1) 703-527-3887 (outside the U.S.), 1-800-424-9300 (in the U.S.)

<b>Section 2</b>	<b>Hazards Identification</b>
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**2.1 Classification of the substance or mixture**

(EC) No 1272/2008

Eye Irrit. 2; H319

Carc. 2; H351

Asp. Tox. 1; H304

Aquatic Chronic 2; H411

67/548/EC or 1999/45/EC

N

Xn

R36/38

R40

R51/53

R65

**For a full text of R- and H- phrases: See section 16**

**2.2 Label elements**

(EC) No 1272/2008



Danger.

Causes serious eye irritation.

May be fatal if swallowed and enters airways.

Suspected of causing cancer.

Toxic to aquatic life with long lasting effects.

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves / eye protection / face protection. Wash thoroughly after handling. Avoid release to the environment.

If skin irritation occurs: Get medical 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 attention.

IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting.

If exposed or concerned: Get medical attention.

Store locked up.

All disposal practices must be in accordance with local, national and international regulations.

**Supplemental label information**

None.

**2.3 Other hazards**

None identified.

<b>Section 3</b>	<b>Composition/Information on Ingredients</b>
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**3.2 Mixtures**

(EC) No 1272/2008

EC No.	Registration Number	Percentage (by wt.)	Name	Classification
265-198-5	Not Available	From 70 to 79.9 percent	Naphtha (petroleum), heavy aromatic	Aquatic Chronic 2; H411 Asp. Tox. 1; H304 Eye Irrit. 2; H319 Flam. Liq. 3; H226
202-049-5	Not Available	7.2%	Naphthalene	Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Carc. 2; H351 Eye Irrit. 2; H319 Flam. Sol. 2; H228
Polymer	Not Available	From 1 to 4.9 percent	Butanedioic acid, polyisobutenyl derivatives	Eye Irrit. 2; H319
203-234-3	Not Available	From 1 to 4.9 percent	2-Ethylhexanol	Acute Tox. 4; H332 Eye Irrit. 2; H319 Skin Irrit. 2; H315 STOT SE 3; H335
247-099-9	Not Available	From 1 to 4.9 percent	Benzene, trimethyl-	Acute Tox. 4; H302 Acute Tox. 4; H312 Eye Irrit. 2; H319 Flam. Liq. 3; H226
202-436-9	Not Available	2%	Benzene, 1,2,4-trimethyl-	Acute Tox. 4; H332 Aquatic Chronic 2; H411 Eye Irrit. 2; H319 Flam. Liq. 3; H226 Skin Irrit. 2; H315 STOT SE 3; H335

**67/548/EC or 1999/45/EC**

EC No.	Registration Number	Percentage (by wt.)	Name	Classification 67/548/EC
265-198-5	Not Available	From 70 to 79.9 percent	Naphtha (petroleum), heavy aromatic	N Xn R36/38 R51/53 R65
202-049-5	Not Available	7.2%	Naphthalene	N Xn R11 R22 R40 R50/53
203-234-3	Not Available	From 1 to 4.9 percent	2-Ethylhexanol	Xn R20 R36/37/38
247-099-9	Not Available	From 1 to 4.9 percent	Benzene, trimethyl-	Xi R10 R38
202-436-9	Not Available	2%	Benzene, 1,2,4-trimethyl-	N Xn R10 R20 R36/37/38 R51/53
265-199-0	Not Available	From 0.1 to 0.9 percent	Petroleum naphtha, light aromatic	N Xi R10 R36/38 R51/53
203-604-4	Not Available	From 0.1 to 0.9 percent	1,3,5-Trimethylbenzene	N Xi R10 R37/38 R51/53

<b>Section 4</b>	<b>First Aid Measures</b>
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**4.1 Description of first aid measures****Skin**

Wash with soap and water. Remove contaminated clothing. If skin irritation occurs, get medical attention. Launder contaminated clothing before reuse.

**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 attention.

**Inhaled**

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is labored, administer oxygen. If breathing has stopped, apply artificial respiration. Call a poison center or doctor.

**Swallowed**

Do NOT induce vomiting. Immediately call a poison center or doctor. 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.

**Advice for first-aid providers**

When providing first aid always protect yourself against exposure to chemicals or blood born diseases by wearing gloves, masks and eye protection. If providing

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CPR use mouthpieces, resuscitation bags, pocket masks or other ventilation devices. After providing first aid wash your exposed skin with soap and water.

## 4.2 Most important symptoms and effects, both acute and delayed

See section 11.

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

If exposed or concerned: Get medical attention.

Section 5	Fire Fighting Measures
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### 5.1 Extinguishing Media

CO<sub>2</sub>, dry chemical, or foam. Water can be used to cool and protect exposed material.

### 5.2 Special hazards arising from substance or mixture

Vapors may be heavier than air and may travel along the ground to a distant ignition source and flash back. Container may rupture on heating. See section 10 for additional information.

### 5.3 Advice for firefighters

Recommend wearing self-contained breathing apparatus. Water may cause splattering.

Section 6	Accidental Release Measures
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### 6.1 Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Personal protective equipment must be worn. Ventilate area if spilled in a confined space or other poorly ventilated area. Eliminate all ignition sources if safe to do so.

### 6.2 Environmental precautions

Take precautions to avoid release to the environment. Prevent from entering into soil, ditches, sewers, waterways and/or groundwater.

### 6.3 Methods and material for containment and cleaning up

Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material.

### 6.4 Reference to other sections

See sections 8 and 13 for additional information.

Section 7	Handling and Storage
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### 7.1 Precautions for safe handling

Keep away from potential sources of ignition. Keep containers closed when not in use. Do not discharge into drains or the environment, dispose to an authorized waste collection point. Use appropriate containment to avoid environmental contamination. Avoid breathing dust, fume, gas, mist, vapors or spray. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Launder contaminated clothing before reuse. Empty containers retain material residue. Do not cut, weld, braze, solder, drill, grind or expose containers to heat, flame, spark or other sources of ignition. Dispose of packaging or containers in accordance with local, regional, national and international regulations.

#### Pumping Temperature

Ambient

#### Maximum Handling Temperature

60 °C, 140 °F

#### Maximum Loading Temperature

Not determined.

### 7.2 Conditions for safe storage, including any incompatibilities

Do not store near potential sources of ignition. Take precautions to avoid release to the environment. Store in a well-ventilated place. Keep cool. Store locked up. See section 10 for incompatible materials.

#### Maximum Storage Temperature

Not determined.

### 7.3 Specific end use(s)

End uses are listed in an attached exposure scenario when one is required.

Section 8	Exposure Controls/Personal Protection
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### 8.1 Control parameters

Country	Substance	Long Term (8 Hours T.W.A.)	Short Term (15 mins.)
Austria	2-Ethylhexanol	50 ppm (s)	100 ppm
Austria	1,3,5-Trimethylbenzene	20 ppm	30 ppm

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Austria	Trimethyl benzene	20 ppm	30 ppm
Austria	Naphthalene	10 ppm (s)	N/E
Austria	Benzene, 1,2,4-trimethyl-	20 ppm	30 ppm
Belgium	1,3,5-Trimethylbenzene	20 ppm	N/E
Belgium	Trimethyl benzene	100 mg/cu. M	N/E
Cyprus	Mesitylene	20 ppm	N/E
Cyprus	Naphthalene	10 ppm	N/E
Cyprus	1,2,4-Trimethylbenzene	20 ppm	N/E
Czech Republic	1,3,5-Trimethylbenzene	100 mg/cu. M	250 mg/cu. M (c)
Czech Republic	Naphthalene	50 mg/cu. M	100 mg/cu. M (c)
Czech Republic	Benzene, 1,2,4-trimethyl-	100 mg/cu. M	250 mg/cu. M (c)
Denmark	1,3,5-Trimethylbenzene	20 ppm	N/E
Denmark	Trimethyl benzene	25 ppm	N/E
Denmark	Naphthalene	10 ppm	N/E
Denmark	Benzene, 1,2,4-trimethyl-	20 ppm	N/E
EU	1,3,5-Trimethylbenzene	20 ppm	N/E
EU	Naphthalene	10 ppm	N/E
EU	Benzene, 1,2,4-trimethyl-	20 ppm	N/E
Estonia	1,3,5-Trimethylbenzene	20 ppm	N/E
Estonia	Trimethyl benzene	20 ppm	N/E
Estonia	Naphthalene	10 ppm	N/E
Estonia	Benzene, 1,2,4-trimethyl-	20 ppm	N/E
Finland	1,3,5-Trimethylbenzene	20 ppm	N/E
Finland	Trimethyl benzene	20 ppm	N/E
Finland	Naphthalene	1 ppm	2 ppm
Finland	Benzene, 1,2,4-trimethyl-	20 ppm	N/E
France	1,3,5-Trimethylbenzene	20 ppm	50 ppm
France	Naphthalene	10 ppm	N/E
France	Benzene, 1,2,4-trimethyl-	20 ppm	50 ppm
Greece	Mesitylene	25 ppm	N/E
Greece	Naphthalene	10 ppm	N/E
Greece	1,2,4-Trimethylbenzene	25 ppm	N/E
Hungary	1,3,5-Trimethylbenzene	100 mg/cu. M	N/E
Hungary	Naphthalene	50 mg/cu. M	N/E
Hungary	Benzene, 1,2,4-trimethyl-	100 mg/cu. M	N/E
Ireland	Mesitylene	20 ppm	N/E
Ireland	Trimethylbenzene, all isomers	20 ppm (s)	N/E
Ireland	Naphthalene	10 ppm	15 ppm
Ireland	Benzene, 1,2,4-trimethyl-	20 ppm	N/E
Italy	1,3,5-Trimethylbenzene	20 ppm	N/E
Italy	Benzene, 1,2,4-trimethyl-	20 ppm	N/E
Netherlands	1,3,5-Trimethylbenzene	N/E	40 ppm
Netherlands	Trimethyl benzene	N/E	40 ppm
Netherlands	Naphthalene	N/E	80 mg/cu. M
Netherlands	Benzene, 1,2,4-trimethyl-	N/E	40 ppm
Norway	Trimethyl benzene	20 ppm	N/E
Poland	2-Ethylhexanol	160 mg/cu. M	320 mg/cu. M
Poland	1,3,5-Trimethylbenzene	100 mg/cu. M	170 mg/cu. M
Poland	Trimethyl benzene	100 mg/cu. M	170 mg/cu. M
Poland	Naphthalene	20 mg/cu. M	50 mg/cu. M
Poland	Benzene, 1,2,4-trimethyl-	100 mg/cu. M	170 mg/cu. M
Portugal	Trimethyl benzene	25 ppm	N/E
Portugal	Naphthalene	10 ppm	15 ppm
Slovenia	1,3,5-Trimethylbenzene	20 ppm	N/E
Slovenia	Naphthalene	10 ppm	N/E
Slovenia	Benzene, 1,2,4-trimethyl-	20 ppm	N/E
Slovak Republic	1,3,5-Trimethylbenzene	20 ppm	200 mg/cu. M (c)
Slovak Republic	Naphthalene	10 ppm	N/E
Slovak Republic	Benzene, 1,2,4-trimethyl-	20 ppm	200 mg/cu. M (c)
Spain	1,3,5-Trimethylbenzene	20 ppm	N/E
Spain	Naphthalene	10 ppm	15 ppm
Spain	Benzene, 1,2,4-trimethyl-	20 ppm	N/E
Sweden	1,3,5-Trimethylbenzene	25 ppm	35 ppm

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Sweden	Trimethyl benzene	25 ppm	35 ppm
Sweden	Naphthalene	10 ppm	15 ppm
Sweden	Benzene, 1,2,4-trimethyl-	25 ppm	35 ppm
Switzerland	2-Ethylhexanol	20 ppm	20 ppm
Switzerland	Trimethyl benzene	20 ppm	40 ppm
Switzerland	Naphthalene	10 ppm	N/E
Germany (TRGS 900)	2-Ethylhexanol	20 ppm	N/E
Germany (TRGS 900)	1,3,5-Trimethylbenzene	20 ppm	N/E
Germany (TRGS 900)	Naphthalene	0.10 ppm (s)	N/E
Germany (TRGS 900)	Benzene, 1,2,4-trimethyl-	20 ppm	N/E
UK	Trimethylbenzenes, all isomers or mixtures	25 ppm	75 ppm

## Other Exposure Limits

None known.

## 8.2 Exposure controls

Use local exhaust ventilation to control mists or vapors. Additional ventilation or exhaust may be required to maintain air concentrations below recommended exposure limits.

### Eye/face protection

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

### Skin protection

Nitrile. Polyvinyl alcohol. Note: polyvinyl alcohol gloves are water soluble and should not be used when there is potential for water contact.

Gloves, coveralls, apron, boots as necessary to minimize contact. Wear either a chemical protective suit or apron when potential for contact with material exists. Do not wear rings, watches or similar apparel that could entrap the material and cause a skin reaction. Launder contaminated clothing before reuse.

### Respiratory Protection

Use full face respirator with an organic vapor cartridge if the recommended exposure limit is exceeded. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites.

### Hygiene Measures

Wash thoroughly after handling this product.

### Environmental exposure controls

See section 6 for details.

Section 9	Physical and Chemical Properties
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## 9.1 Information on basic physical and chemical properties

<b>Appearance</b>	Dark amber liquid.
<b>Odour</b>	Aromatic hydrocarbon
<b>Odour Threshold</b>	Not determined.
<b>pH</b>	Not determined.
<b>Melting / Freezing Point</b>	Not determined.
<b>Boiling Point</b>	Not determined.
<b>Boiling Point Range</b>	Not determined.
<b>Flash Point</b>	66 °C, 150.8 °F PMCC (Typical)
<b>Evaporation Rate</b>	Not determined.
<b>Flammability (solid,gas)</b>	Not applicable.
<b>Lower flammability or explosive limit</b>	Not determined.
<b>Upper flammability or explosive limit</b>	Not determined.
<b>Vapour Pressure</b>	0.00386 psi (Calc) (0 °C) 0.01529 psi (Calc) (20 °C) 0.04572 psi (Calc) (38 °C)
<b>Vapour Density</b>	Not determined.
<b>Relative density</b>	0.91 (15.6 °C)
<b>Bulk Density</b>	Not determined.
<b>Water Solubility</b>	Insoluble.
<b>Other solubilities</b>	Not determined.
<b>Partition coefficient: n-octanol/water</b>	Not determined.
<b>Autoignition Point</b>	Not determined.
<b>Decomposition Temperature</b>	Not determined.
<b>Viscosity</b>	31.1 Centistokes (-20 °C) 13.7 Centistokes (0 °C) 6 Centistokes (25 °C)
<b>Explosive properties</b>	Material does not have explosive properties.

**Oxidising properties**

Material is a non-oxidising substance.

**9.2 Other information****Pour Point Temperature** < -60 °C, < -76 °F*The above data are typical values and do not constitute a specification.*

<b>Section 10</b>	<b>Stability and Reactivity</b>
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**10.1 Reactivity**

Carefully review all information provided in sections 10.2 - 10.6.

**10.2 Chemical stability**

Material is normally stable at moderately elevated temperatures and pressures.

**10.3 Possibility of hazardous reactions**

Will not occur.

**10.4 Conditions to avoid**

Not determined.

**10.5 Incompatible materials**

Strong oxidizing agents.

**10.6 Hazardous decomposition products**

Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion.

<b>Section 11</b>	<b>Toxicological Information</b>
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**11.1 Information on toxicological effects****Acute toxicity****Oral**

The LD50 in rats is &gt; 10,000 mg/Kg. Based on data from components or similar materials. Swallowing material may cause irritation of the gastrointestinal lining, nausea, vomiting, diarrhea, and abdominal pain.

**Dermal**

The LD50 in rabbits is &gt; 5000 mg/Kg. Based on data from components or similar materials. Prolonged or widespread contact with this material could result in the absorption of potentially harmful amounts.

**Inhalation**

The LC50 (4 hr.) in rats for vapors of this material is &gt; 200 mg/l. Based on data from components or similar materials. The LC50 (4 hr.) in rats for dust or mist of this material is &gt; 50 mg/l. Based on data from components or similar materials. High concentrations may cause headaches, dizziness, nausea, stupor, and other central nervous system effects leading to visual impairment, difficulty breathing and convulsions.

	<b>Percentage (by wt.)</b>	<b>LC50 (4 Hr.)</b>	<b>Form</b>
2-Ethylhexanol	From 1 to 4.9 percent	2.7mg/l	Particulate/Mist

**Skin corrosion / irritation**

Skin irritant. Based on data from similar materials. 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.

**Serious eye damage / irritation**

Moderate to strong eye irritant. Based on data from similar materials.

**Respiratory Irritation**

Nose, throat and lung irritant. Based on data from similar materials. Exposure to a high concentration of vapor or mist is irritating to the respiratory tract.

**Respiratory or skin sensitization****Skin**

No data available to indicate product or components may be a skin sensitizer.

**Respiratory**

No data available to indicate product or components may be respiratory sensitizers.

**Germ cell mutagenicity**

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity**

This product contains mineral oils which are considered to be severely refined and not considered to be carcinogenic under IARC. All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP 346 test.

**Reproductive Toxicity**

No data available to indicate either product or components present at greater than 0.1% that may cause reproductive toxicity.

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.

**STOT repeated exposure**

Repeated overexposure to petroleum naphtha can cause nervous system damage. A 14-day dermal toxicity study of 2-ethylhexanol in rats showed blood effects, decreased spleen weight and decreased triglycerides. Repeated overexposure to naphthalene may cause destruction of red blood cells with anemia, fever, jaundice and kidney and liver damage. Repeated ingestion of 2-ethylhexanol may cause injury to the liver and kidneys.

**Other information**

No other health hazards known.

<b>Section 12</b>	<b>Ecological Information</b>
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**12.1 Toxicity**

**Freshwater fish**

The acute LC50 is 1 - 10 mg/L based on component data.

**Freshwater invertebrates**

The acute EC50 is 1 - 10 mg/L based on component data.

**Algae**

The acute EC50 is 1 - 10 mg/L based on component data.

**Saltwater fish**

Not determined.

**Saltwater invertebrates**

Not determined.

**Bacteria**

Not determined.

**12.2 Persistence and degradability**

Substance	Pct. (weight)	Test type	Duration (days)	Pct. degradation
Naphtha (petroleum), heavy aromatic	From 70 to 79.9 percent	Manometric Respirometry	28	58

**12.3 Bioaccumulative potential**

Substance	Pct. (weight)	Test type	Duration (days)	Log Kow or BCF
Naphtha (petroleum), heavy aromatic	From 70 to 79.9 percent	Octanol-Water Coefficient	0.1	3.1

**12.4 Mobility in soil**

Not applicable.

**12.5 Results of PBT and vPvB assessment**

Not Available

**12.6 Other adverse effects**

None known.

<b>Section 13</b>	<b>Disposal Considerations</b>
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**13.1 Waste treatment methods**

All disposal practices must be in accordance with local, regional, national and international regulations. Do not dispose in landfill.

Empty container retains product residue and can be hazardous. Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat, flame, sparks, static electricity, or other sources of ignition. Dispose of packaging or containers in accordance with local, regional, national and international regulations.

<b>Section 14</b>	<b>Transport Information</b>
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**14.1 UN number**

<b>ADR/RID</b>	UN3082
<b>ICAO</b>	UN3082
<b>IMDG</b>	UN3082

**14.2 UN proper shipping name**

<b>ADR/RID</b>	Environmentally hazardous substance, liquid, n.o.s.(Petroleum naphtha)
<b>ICAO</b>	Environmentally hazardous substance, liquid, n.o.s.(Petroleum naphtha)
<b>IMDG</b>	Environmentally hazardous substance, liquid, n.o.s.(Petroleum naphtha)

**14.3 Transport hazard class(es)**

<b>ADR/RID</b>	9
<b>ICAO</b>	9
<b>IMDG</b>	9

**14.4 Packing group**

<b>ADR/RID</b>	III
<b>ICAO</b>	III
<b>IMDG</b>	III

**14.5 Environmental hazards**

<b>ADR/RID</b>	Aquatic Pollutant(Petroleum naphtha)
<b>ICAO</b>	Marine Pollutant(Petroleum naphtha)
<b>IMDG</b>	Marine Pollutant(Petroleum naphtha)

**14.6 Special precautions for users**

Review classification requirements before shipping materials at elevated temperatures.

**14.7 Transport in bulk according to Annex II of Marpol 73/78 and the IBC code**

Not determined.

<b>Section 15</b>	<b>Regulatory Information</b>
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**15.1 Safety, health and environment regulations / legislation specific for the substance or mixture****Global Chemical Inventories**

<b>Australia</b>	A component(s) of this product has been notified and assessed under the Industrial Chemicals Act of 1989. This product may be imported only by Lubrizol Australia.
<b>Canada</b>	All components are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List.
<b>China</b>	This product may be imported to China only by Lubrizol China.
<b>EU</b>	All components are in compliance with the EC Seventh amendment Directive 92 /32/EEC.
<b>Japan</b>	This product requires notification in Japan.
<b>Korea</b>	All components are in compliance in Korea.
<b>New Zealand</b>	All components are in compliance with chemical notification requirements in New Zealand.
<b>Philippines</b>	All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990 (R.A. 6969).
<b>Switzerland</b>	All components are in compliance with the Environmentally Hazardous Substances Ordinance in Switzerland.
<b>Taiwan</b>	May require notification before sale in Taiwan.
<b>USA</b>	All components of this material are on the US TSCA Inventory or are exempt.

**German water hazard classes**

WGK = 2 according to the Water Hazardous Directive, VwVwS, dated May 17, 1999.

**15.2 Chemical safety assessment**

No chemical safety assessment has been carried out.

<b>Section 16</b>	<b>Other Information</b>
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**Created by**

Product Safety and Compliance Department (440-943-1200)

**Created Date**

15 October 2008

**Revision date**

26 January 2012

**SDS No.**

11397595-4421351-0015221-102103

**HMIS Codes**

Health	Fire	Reactivity
2*	2	0

**Relevant R Phrases**

- R10 -- Flammable.
- R11 -- Highly flammable.
- R20 -- Harmful by inhalation.
- R22 -- Harmful if swallowed.
- R36/37/38 -- Irritating to eyes, respiratory system and skin.
- R36/38 -- Irritating to eyes and skin.
- R37/38 -- Irritating to respiratory system and skin.
- R38 -- Irritating to skin.
- R40 -- Limited evidence of a carcinogenic effect.
- R50/53 -- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R51/53 -- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R65 -- Harmful: may cause lung damage if swallowed.



**Relevant hazard phrases**

- H226 - Flammable liquid and vapor.
- H228 - Flammable solid.
- H302 - Harmful if swallowed.
- H304 - May be fatal if swallowed and enters airways.
- H312 - Harmful in contact with skin.
- H315 - Causes skin irritation.
- H319 - Causes serious eye irritation.
- H332 - Harmful if inhaled.
- H335 - May cause respiratory irritation.
- H351 - Suspected of causing cancer.
- H400 - Very toxic to aquatic life.
- H410 - Very toxic to aquatic life with long lasting effects.
- H411 - Toxic to aquatic life with long lasting effects.

**Revision Indicators**

Section: 2 CLP Symbol	Changed: 8 September 2011
Section: 2 GHS Prevention statement(s)	Changed: 26 February 2011
Section: 2 General	Changed: 26 February 2011
Section: 2 Disposal	Changed: 29 July 2011
Section: 2 Extinguishing media.	Changed: 26 February 2011
Section: 2 Oral first aid.	Changed: 26 February 2011
Section: 2 Skin first aid.	Changed: 26 February 2011
Section: 2 Storage procedures.	Changed: 26 February 2011
Section: 4 Advice to first aide provider.	Changed: 26 February 2011
Section: 7 Storage procedures.	Changed: 26 February 2011
Section: 11 Eye irritation.	Changed: 29 July 2011
Section: 11 Inhalation toxicity.	Changed: 29 July 2011

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