

# Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012. Date of issue: 04/30/2014 Revision date: 04/30/2014 Version: 1.0

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

**Product identifier** 

: PENRAY ENGINE OIL TREATMENT Product name

Product code : 3112

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

Use of the substance/mixture : Engine oil treatment.

Details of the supplier of the safety data sheet

The Penray Companies, Inc. 440 Denniston Ct. 60090 Wheeling, IL T (800) 373-6729 rotto@penray.com

**Emergency telephone number** 1.4.

**Emergency number** : (800) 373-6729

CHEMTREC (800) 424-9300

CHEMTREC International +1 (703) 527-3887 24 hr

### **SECTION 2: Hazards identification**

#### Classification of the substance or mixture

#### **GHS-US** classification

Eye irritation 2A Skin sensitization 1 Reproductive toxicity 1B Aspiration hazard 1

#### 22 **Label elements**

#### **GHS-US** labelling

Hazard pictograms (GHS-US)



GHS07



Signal word (GHS-US) : Danger

Causes serious eye irritation. May cause an allergic skin reaction. May damage fertility or the Hazard statements (GHS-US)

unborn child. May be fatal if swallowed and enters airways.

: Wash hands thoroughly after handling. Avoid breathing gas/mist/vapors/spray. Contaminated Precautionary statements (GHS-US)

work clothing must not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. If exposed or concerned: Get medical advice/attention. If on skin: Wash with plenty of water. Wash contaminated clothing before reuse. If skin irritation or rash 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/doctor. Do NOT induce vomiting. Store locked up. Dispose of contents and container in

accordance with all local, regional, national and international regulations.

#### Other hazards

No additional information available

### **SECTION 3: Composition/information on ingredients**

#### **Substance**

Not applicable

#### Mixture 32

J.Z. WINTUIG			
Name	Product identifier	%	GHS-US classification
Distillates, petroleum, solvent-refined heavy paraffinic	(CAS No) 64741-88-4	30 - 60	Not classified
Distillates, petroleum, hydrotreated light naphthenic	(CAS No) 64742-53-6	15 - 40	Not classified
Distillates, petroleum, hydrotreated heavy naphthenic	(CAS No) 64742-52-5	10 - 30	Asp. Tox. 1
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	(CAS No) 68649-42-3	1 - 5	Skin Irrit. 2 Eye Dam. 1
Phenol, (tetrapropenyl) derivatives	(CAS No) 74499-35-7	0.1 - 1	Skin Irrit. 2 Eye Irrit. 2A Repr. 2
Phenol, (tetrapropenyl) derivatives, calcium salts	(CAS No) 132752-19-3	0.1 - 1	Repr. 1B



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Name	Product identifier	%	GHS-US classification
Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivatives, calcium salts	(CAS No) 722503-68-6	0.1 - 1	Skin Sens. 1
Methyl alcohol	(CAS No) 67-56-1	< 0.1	Flam. Liq. 2 Acute Tox. 3 (Oral, Dermal, Inhalation) Eye Irrit. 2B STOT SE 1
The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.			

### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures after inhalation

First-aid measures after eve contact

: If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position

comfortable for breathing. Get medical advice/attention if you feel unwell.

First-aid measures after skin contact : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.

: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to

do, remove contact lenses, if worn. If irritation persists, get medical attention.

First-aid measures after ingestion : If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.

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

Symptoms/injuries after inhalation

: May cause respiratory tract irritation.

Symptoms/injuries after skin contact

: May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. May cause sensitization by skin contact.

Symptoms/injuries after eye contact

: Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and

tear production, with marked redness and swelling of the conjunctiva.

Symptoms/injuries after ingestion

: May be fatal if swallowed and enters airways. This product may be aspirated into the lungs and cause chemical pneumonitis. May cause stomach distress, nausea or vomiting.

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

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

#### **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media

Suitable extinguishing media : Powder, water spray, foam, carbon dioxide.

Unsuitable extinguishing media : Do not use a heavy water stream.

# 5.2. Special hazards arising from the substance or mixture

Fire hazard : Products of combustion may include, and are not limited to: oxides of carbon.

#### 5.3. Advice for firefighters

Protection during firefighting

: Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory

protection (SCBA). Use water spray to keep fire-exposed containers cool.

# **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures

: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

### 6.2. Methods and material for containment and cleaning up

For containment

 Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for cleaning up : Scoop up material and place in a disposal container. Provide ventilation.

# 6.3. Reference to other sections

See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.

# **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

Precautions for safe handling

: Avoid contact with skin and eyes. Avoid breathing gas/mist/vapors/spray. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke.

Hygiene measures : Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

# 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep out of the reach of children. Keep container tightly closed. Store locked up.

### 7.3. Specific end use(s)

Not available.

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# SECTION 8: Exposure controls/personal protection

### **Control parameters**

Distillates, petroleum, solvent-refined heavy paraffinic (64741-88-4)		
USA ACGIH	ACGIH TWA (mg/m³)	5 mg/m³
USA OSHA	OSHA PEL (TWA) (mg/m³)	5 mg/m³

Distillates, petroleum, hydrotreated light naphthenic (64742-53-6)		
USA ACGIH	ACGIH TWA (mg/m³)	5 mg/m³
USA OSHA	OSHA PEL (TWA) (mg/m³)	5 mg/m³

Distillates, petroleum, hydrotreated heavy naphthenic (64742-52-5)		
USA ACGIH	ACGIH TWA (mg/m³)	5 mg/m³
USA OSHA	OSHA PEL (TWA) (mg/m³)	5 mg/m³

Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (68649-42-3)		
USA ACGIH	ACGIH TWA	Not applicable.
USA OSHA	OSHA PEL (TWA)	Not applicable.

Phenol, (tetrapropenyl) derivatives (74499-35-7)		
USA ACGIH	ACGIH TWA	Not applicable.
USA OSHA	OSHA PEL (TWA)	Not applicable.

Phenol, (tetrapropenyl) derivatives, calcium salts (132752-19-3)		
USA ACGIH	ACGIH TWA	Not applicable.
USA OSHA	OSHA PEL (TWA)	Not applicable.

Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivatives, calcium salts (722503-68-6)		
USA ACGIH	ACGIH TWA	Not applicable.
USA OSHA	OSHA PEL (TWA)	Not applicable.

Methyl alcohol (67-56-1)		
USA ACGIH	ACGIH TWA (ppm)	200 ppm
USA ACGIH	ACGIH STEL (ppm)	250 ppm
USA OSHA	OSHA PEL (TWA) (mg/m³)	260 mg/m³
USA OSHA	OSHA PEL (TWA) (ppm)	200 ppm

### **Exposure controls**

Appropriate engineering controls : Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below

recommended exposure limits. Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear chemically resistant protective gloves.

Eye protection : Safety glasses or goggles are recommended when using product.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe

working limits of the selected respirator.

Environmental exposure controls : Maintain levels below Community environmental protection thresholds.

Other information : Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully

before eating or smoking. Handle according to established industrial hygiene and safety practices.

# SECTION 9: Physical and chemical properties

# Information on basic physical and chemical properties

Physical state : Liquid. Appearance : Clear. Colour : Amber. : Petroleum odor. Odour Odour threshold : No data available. : No data available. рΗ

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Relative evaporation rate (butylacetate=1) : No data available. Melting point : No data available. : No data available. Freezing point : No data available. Boiling point : > 100 °C (> 212 °F) Flash point Self ignition temperature : No data available. : No data available. Decomposition temperature Flammability (solid, gas) : Not flammable. : No data available. Vapour pressure Relative vapour density at 20 °C : No data available. Relative density : 0.876 - 0.886 Solubility : No data available. : No data available. Log Pow Log Kow : No data available. Viscosity, kinematic : No data available. Viscosity, dynamic : No data available. Explosive properties : No data available. Oxidising properties : No data available. : No data available. **Explosive limits** 

#### 9.2. Other information

No additional information available

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No dangerous reaction known under conditions of normal use.

#### 10.2. Chemical stability

Stable under normal storage conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

#### 10.4. Conditions to avoid

Heat. Incompatible materials. Direct sunlight.

### 10.5. Incompatible materials

Strong oxidizing agents.

#### 10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon.

# **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

3112	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	No data available.

Distillates, petroleum, solvent-refined heavy paraffinic (64741-88-4)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	2.18 mg/l/4h

Distillates, petroleum, hydrotreated I	Distillates, petroleum, hydrotreated light naphthenic (64742-53-6)					
LD50 oral rat	> 5000 mg/kg					
LD50 dermal rabbit	> 2000 mg/kg					
LC50 inhalation rat (mg/l)	2 18 mg/l/4h					

Distillates, petroleum, hydrotreated heav	Distillates, petroleum, hydrotreated heavy naphthenic (64742-52-5)					
LD50 oral rat	> 5000 mg/kg					
LD50 dermal rabbit	> 5000 mg/kg					
LC50 inhalation rat (mg/l)	> 5 mg/l/4h					

Methyl alcohol (67-56-1)	·	
LD50 oral rat	5628 mg/kg	
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Methyl alcohol (67-56-1)	
LD50 dermal rabbit	15800 mg/kg
LC50 inhalation rat (mg/l)	83.2 mg/l/4h
Skin corrosion/irritation	: Based on available data, the classification criteria are not met.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Based on available data, the classification criteria are not met.
Carcinogenicity	: Based on available data, the classification criteria are not met.
Reproductive toxicity	: May damage fertility or the unborn child.
Specific target organ toxicity (single exposure)	: Based on available data, the classification criteria are not met.
Specific target organ toxicity (repeated exposure)	: Based on available data, the classification criteria are not met.
Aspiration hazard	: May be fatal if swallowed and enters airways.
Symptoms/injuries after inhalation	: May cause respiratory tract irritation.
Symptoms/injuries after skin contact	: May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. May cause sensitisation by skin contact.
Symptoms/injuries after eye contact	: Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
Symptoms/injuries after ingestion	: May be fatal if swallowed and enters airways. This product may be aspirated into the lungs and cause chemical pneumonitis. May cause stomach distress, nausea or vomiting.

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#### 12.1. Toxicity

Ecology - general : May cause long-term adverse effects in the aquatic environment.

# 12.2. Persistence and degradability

Persistence and degradability

Not established.

### 12.3. Bioaccumulative potential

#### 3112

Bioaccumulative potential Not established.

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

No additional information available

# **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

Waste disposal recommendations

: This material must be disposed of in accordance with all local, state, provincial, and federal regulations. The generation of waste should be avoided or minimized wherever possible.

### **SECTION 14: Transport information**

In accordance with DOT

### 14.1. UN number

Not applicable

# 14.2. UN proper shipping name

Not applicable

# 14.3. Additional information

Other information : No supplementary information available.

Special transport precautions : Do not handle until all safety precautions have been read and understood.

# **SECTION 15: Regulatory information**

### 15.1. US Federal regulations

### Distillates, petroleum, solvent-refined heavy paraffinic (64741-88-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

# Distillates, petroleum, hydrotreated light naphthenic (64742-53-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

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### Distillates, petroleum, hydrotreated heavy naphthenic (64742-52-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

# Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (68649-42-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### Phenol, (tetrapropenyl) derivatives (74499-35-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Phenol, (tetrapropenyl) derivatives, calcium salts (132752-19-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### Methyl alcohol (67-56-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on SARA Section 313 (Specific toxic chemical listings)

SARA Section 313 - Emission Reporting 1.0 %

#### 15.2. US State regulations

3112	
State or local regulations	This product contains a chemical known to the State of California to cause birth defects or
	other reproductive harm.

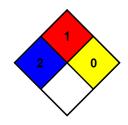
### **SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:**

IARC	International Agency for Research on Cancer.
	1 - Carcinogenic to humans; 2A - Probably carcinogenic to humans; 2B - Possibly carcinogenic to humans; 3 - Not classifiable; 4 - Probably not carcinogenic to humans.
NTP	National Toxicology Program.
	<ul> <li>1 - Evidence of Carcinogenicity;</li> <li>2 - Known Human Carcinogens;</li> <li>3 - Reasonably anticipated to be Human Carcinogen;</li> <li>4 - Substances delisted from report on Carcinogens;</li> <li>5 - Twelfth Report - Items under consideration.</li> </ul>

# **SECTION 16: Other information**

Indication of changes: None.Date of issue: 04/30/2014Other information: None.

NFPA health hazard:2NFPA fire hazard:1NFPA reactivity:0



This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product







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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

**Product identifier** 

: PENRAY OIL SYSTEM CLEANER Product name

Product code

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

Use of the substance/mixture : Motor flush.

Details of the supplier of the safety data sheet

The Penray Companies, Inc. 440 Denniston Ct. Wheeling, IL 60090 T (800) 373-6729 rotto@penray.com

**Emergency telephone number** 

Emergency number : (800) 373-6729

CHEMTREC (800) 424-9300

CHEMTREC International +1 (703) 527-3887 24 hr

### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### **GHS-US** classification

Flammable Liquid 3 Skin irritation 2 Carcinogenicity 2 Specific target organ toxicity - Single exposure 3 Aspiration hazard 1

#### **Label elements**

# **GHS-US** labelling

Hazard pictograms (GHS-US)



GHS07



Signal word (GHS-US) : Danger

Hazard statements (GHS-US) Flammable liquid and vapor. Causes skin irritation. May cause drowsiness or dizziness. May be

fatal if swallowed and enters airways.

Precautionary statements (GHS-US)

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/Bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wash hands thoroughly after handling. Wear protective gloves/eye protection/face protection. Avoid breathing gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. If on skin (or hair): Take off immediately all contaminated clothing and wash it before reuse. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. Store in a well-ventilated place. Keep cool. Store locked up. Keep container tightly closed. Dispose of contents and container in accordance with all local, regional, national and international regulations.

### Other hazards

No additional information available

### **SECTION 3: Composition/information on ingredients**

### **Substance**

Not applicable

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#### 3.2. Mixture

Name	Product identifier	%	GHS-US classification
Kerosine, petroleum	(CAS No) 8008-20-6	60 - 100	Flam. Liq. 3 Skin Irrit. 2 STOT SE 3 Asp. Tox. 1
Naphthalene	(CAS No) 91-20-3	0.1 - 1	Acute Tox. 4 (Oral) Carc. 2

<sup>\*</sup> The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

#### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures after inhalation

: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical advice/attention if you feel unwell.

First-aid measures after skin contact

: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.

First-aid measures after eye contact

: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. If irritation persists, get medical attention.

First-aid measures after ingestion

: If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.

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

Symptoms/injuries after inhalation

: May cause drowsiness, dizziness and central nervous system depression. May cause respiratory tract irritation.

Symptoms/injuries after skin contact

: Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Symptoms/injuries after eye contact

May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear

production, with possible redness and swelling.

Symptoms/injuries after ingestion

: May be fatal if swallowed and enters airways. This product may be aspirated into the lungs and cause chemical pneumonitis. May cause stomach distress, nausea or vomiting.

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

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media

: Powder, water spray, foam, carbon dioxide.

Unsuitable extinguishing media

: Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard

: Products of combustion may include, and are not limited to: oxides of carbon, aldehydes, hydrocarbons.

#### 5.3. Advice for firefighters

Protection during firefighting

: Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Vapors may be heavier than air and may travel along the ground to a distant ignition source and flash back. Use water spray to keep fire-exposed containers cool.

### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures

: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition.

### 6.2. Methods and material for containment and cleaning up

For containment

 Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for cleaning up

: Scoop up material and place in a disposal container. Provide ventilation.

### 6.3. Reference to other sections

See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.

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# **SECTION 7: Handling and storage**

#### Precautions for safe handling

Precautions for safe handling

: Keep away from sources of ignition - No smoking. Avoid contact with skin and eyes. Avoid breathing gas/mist/vapors/spray. Do not swallow. Handle and open container with care. Use only non-sparking tools. When using do not eat, drink or smoke. Use only outdoors or in a well-

ventilated area

Hygiene measures Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

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

Storage conditions

: Keep out of the reach of children. Keep container tightly closed and in a well-ventilated place. Store locked up. Keep cool. Keep away from heat, sparks, and flame.

#### Specific end use(s)

Not available.

#### SECTION 8: Exposure controls/personal protection

#### **Control parameters**

Kerosine, petroleum	Kerosine, petroleum (8008-20-6)							
USA ACGIH	ACGIH TWA (mg/m³)	200 mg/m³						
		<u> </u>						
Naphthalene (91-20-3)								
USA ACGIH	ACGIH TWA (ppm)	10 ppm						
USA ACGIH	ACGIH STEL (ppm)	15 ppm						
USA OSHA	OSHA PEL (TWA) (mg/m³)	50 mg/m³						
USA OSHA	OSHA PEL (TWA) (ppm)	10 ppm						

#### **Exposure controls**

Appropriate engineering controls

: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below

recommended exposure limits. : Avoid all unnecessary exposure.

Personal protective equipment

Wear chemically resistant protective gloves.

Hand protection Eye protection

Safety glasses or goggles are recommended when using product.

Skin and body protection

Wear suitable protective clothing.

Respiratory protection

: A NIOSH approved respirator is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Environmental exposure controls

Maintain levels below Community environmental protection thresholds

Other information

Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.

#### SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

Physical state : Liquid. Appearance : Clear. Color Red. Odor Solvent.

Odor threshold : No data available.

Ha : Neutral

Relative evaporation rate (butylacetate=1) : No data available. Melting point : No data available. Freezing point No data available.

Boiling point : 182 - 288 °C (360 - 550 °F) Flash point : 49 - 88 °C (120 - 190 °F) Self ignition temperature : ~ 254 °C (~ 489 °F) Decomposition temperature : No data available.

Flammability (solid, gas) : Flammable.

: 1 - 10 mm Hg @ 38 °C (100 °F) Vapor pressure

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Relative vapor density at 20 °C : 4 - 5
Relative density : ~ 0.8
Solubility : Negligible.
Log Pow : No data available.
Log Kow : No data available.

Viscosity, kinematic : 1.3 - 2.1 @ 50 °C (122 °F)

Viscosity, dynamic : No data available.

Explosive properties : No data available.

Oxidising properties : No data available.

Explosive limits : 0.7 - 5 vol %

9.2. Other information

VOC content : 10 %

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No dangerous reaction known under conditions of normal use.

#### 10.2. Chemical stability

Stable under normal storage conditions. May form flammable/explosive vapor-air mixture.

#### 10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

#### 10.4. Conditions to avoid

Heat. Incompatible materials. Open flame.

#### 10.5. Incompatible materials

Strong oxidizing agents.

#### 10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon, aldehydes, hydrocarbons.

# **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

7512		
LD50 oral rat	> 2000 mg/kg	
LD50 dermal rabbit	> 2000 mg/kg	
LC50 inhalation rat	No data available.	

Kerosine, petroleum (8008-20-6)					
LD50 oral rat	> 5000 mg/kg				
LD50 dermal rabbit	> 2000 mg/kg				
LC50 inhalation rat	> 5.28 mg/l/4h				

Naphthalene (91-20-3)	hthalene (91-20-3)	
LD50 oral rat	490 mg/kg	
LD50 dermal rabbit	> 20 g/kg	
LC50 inhalation rat	>340 mg/m³/1h	
LC50 inhalation rat	>0.4 mg/l/4h	

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation : Based on available data, the classification criteria are not met.

Germ cell mutagenicity : Based on available data, the classification criteria are not met.

Carcinogenicity : Suspected of causing cancer.

alene (91-20-3)	
Possibly carcinogenic to humans	
vidence of Carcinogenicity, 3 - Reasonably anticipated to be Human Carcinogen	

Reproductive toxicity : Based on available data, the classification criteria are not met.

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# Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

Specific target organ toxicity (single exposure) : May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure) : Based on available data, the classification criteria are not met.

Aspiration hazard : May be fatal if swallowed and enters airways.

Symptoms/injuries after inhalation : May cause drowsiness, dizziness and central nervous system depression. May cause respiratory

tract irritation.

Symptoms/injuries after skin contact : Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Symptoms/injuries after eye contact : May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear

production, with possible redness and swelling.

Symptoms/injuries after ingestion : May be fatal if swallowed and enters airways. This product may be aspirated into the lungs and

cause chemical pneumonitis. May cause stomach distress, nausea or vomiting.

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

Ecology - general : May cause long-term adverse effects in the aquatic environment.

#### 12.2. Persistence and degradability

7512		
	Persistence and degradability	Not established

#### 12.3. Bioaccumulative potential

7512	
Bioaccumulative potential	Not established.

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Effect on ozone layer : No additional information available

Effect on the global warming : No known ecological damage caused by this product.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste disposal recommendations : This material must be disposed of in accordance with all local, state, provincial, and federal

regulations. The generation of waste should be avoided or minimized wherever possible.

Additional information : Handle empty containers with care because residual vapors are flammable.

# **SECTION 14: Transport information**

In accordance with DOT

### 14.1. UN number

UN-No. : UN1223

# 14.2. UN proper shipping name

Proper Shipping Name : Kerosene

Department of Transportation Hazard Classes

Hazard labels



Packing group : III

# 14.3. Additional information

Other information : No supplementary information available.

Special transport precautions : Do not handle until all safety precautions have been read and understood.

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# Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

# **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

Naphthalene (91-20-3)	laphthalene (91-20-3) isted on SARA Section 313 (Specific toxic chemical listings)		
Listed on SARA Section 313 (Specific toxic chem			
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.		
SARA Section 313 - Emission Reporting	0.1 %		

#### 15.2. US State regulations

7512	
State or local regulations	This product contains a chemical known to the State of California to cause cancer.

# **SECTION 16: Other information**

Indication of changes: None.Date of issue: 08/05/2014Other information: None.

NFPA health hazard : 2
NFPA fire hazard : 2
NFPA reactivity : 1



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