

# SAFETY DATA SHEET

## 1. Identification

**Product identifier:** Calube 3011

**Other means of identification**

**SDS number:** RE1000017038

**Recommended restrictions**

**Product Use:** Lubricant

**Restrictions on use:** Not known.

**Manufacturer/Importer/Distributor Information**

**Manufacturer**

Company Name: Brodi Specialty Products  
Address: 3175 14th Avenue  
Markham, ON L3R 0H1

Telephone:

Fax:

**Emergency telephone number:** 1-866-836-8855

## 2. Hazard(s) identification

**Hazard Classification**

**Physical Hazards**

Flammable aerosol Category 1

**Health Hazards**

Serious Eye Damage/Eye Irritation Category 2A

Germ Cell Mutagenicity Category 1B

Carcinogenicity Category 1A

Specific Target Organ Toxicity -  
Repeated Exposure Category 1<sup>1</sup>.

**Target Organs**

1.Nervous System

**Environmental Hazards**

Acute hazards to the aquatic  
environment Category 3

**Label Elements**

**Hazard Symbol:**



**Signal Word:**

Danger

<b>Hazard Statement:</b>	Extremely flammable aerosol. Causes serious eye irritation. May cause genetic defects. May cause cancer. Causes damage to organs through prolonged or repeated exposure. Harmful to aquatic life.
<b>Precautionary Statements</b>	
<b>Prevention:</b>	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.
<b>Response:</b>	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 exposed or concerned: Get medical advice/attention.
<b>Storage:</b>	Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.
<b>Disposal:</b>	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.
<b>Other hazards which do not result in GHS classification:</b>	None.

<b>3. Composition/information on ingredients</b>
--

## Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
		64742-54-7	60 - 80%
Propane		74-98-6	10 - 30%
Stoddard solvent		8052-41-3	3 - 7%
Solvent naphtha (petroleum), medium aliph.		64742-88-7	1 - 5%
Amides, coco, N,N-bis(hydroxyethyl)		68603-42-9	0.5 - 1.5%
Ethanol, 2,2'-iminobis-		111-42-2	0.1 - 1%
Distillates (petroleum), hydrotreated heavy naphthenic		64742-52-5	0.1 - 1%
Molybdenum sulfide (MoS <sub>2</sub> )		1317-33-5	0.1 - 1%
Sulfonic acids, petroleum, calcium salts		61789-86-4	0.1 - 1%
Graphite		7782-42-5	0.1 - 1%
Distillates (petroleum), solvent-refined heavy paraffinic		64741-88-4	0.1 - 1%
Benzene, 1,2,4-trimethyl-		95-63-6	0 - 0.1%
Naphthalene		91-20-3	0 - 0.1%
Benzene, ethyl-		100-41-4	0 - 0.1%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

## 4. First-aid measures

<b>Ingestion:</b>	Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
<b>Inhalation:</b>	Move to fresh air.
<b>Skin Contact:</b>	Wash skin thoroughly with soap and water. If skin irritation occurs: Get medical advice/attention.
<b>Eye contact:</b>	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

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

<b>Symptoms:</b>	No data available.
<b>Hazards:</b>	No data available.

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

<b>Treatment:</b>	No data available.
-------------------	--------------------

## 5. Fire-fighting measures

<b>General Fire Hazards:</b>	Use water spray to keep fire-exposed containers cool. Fight fire from a protected location. Move containers from fire area if you can do so without risk.
------------------------------	---

### Suitable (and unsuitable) extinguishing media

<b>Suitable extinguishing media:</b>	Use fire-extinguishing media appropriate for surrounding materials.
--------------------------------------	---

**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 travel considerable distance to a source of ignition and flash back.

#### Special protective equipment and precautions for firefighters

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

**Special protective equipment for fire-fighters:** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

### 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.

**Methods and material for containment and cleaning up:** Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Dike far ahead of larger spill for later recovery and disposal.

**Notification Procedures:** Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk.

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

### 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. Use personal protective equipment as required. Avoid contact with eyes. Wash hands thoroughly after handling. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use.

**Conditions for safe storage, including any incompatibilities:** Store locked up. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Aerosol Level 3

### 8. Exposure controls/personal protection

#### Control Parameters

#### Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
- Inhalable fraction.	TWA	5 mg/m3	Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act) (03 2014)
- Mist.	TWA	1 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (05 2013)
- Mist.	STEL	10 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (07 2009)
	TWA	5 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (07 2009)

	15 MIN ACL	10 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)
- Inhalable fraction.	TWA	5 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)
	TWA	5 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)
- Mist.	STEL	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
	TWA	5 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
	8 HR ACL	5 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)
Distillates (petroleum), hydrotreated heavy paraffinic - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (03 2014)
Propane	TWA	1,000 ppm	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (07 2009)
Propane	8 HR ACL	1,000 ppm	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)
Propane	TWA	1,000 ppm 1,800 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
Propane	TWA	1,000 ppm	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	15 MIN ACL	1,250 ppm	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)
Stoddard solvent	TWA	100 ppm 572 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (10 2006)
Stoddard solvent	STEL	580 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	290 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Stoddard solvent	TWA	100 ppm	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Stoddard solvent	15 MIN ACL	125 ppm	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)
	8 HR ACL	100 ppm	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)
Stoddard solvent	TWA	100 ppm	Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act) (03 2011)
Stoddard solvent	TWA	100 ppm 525 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Stoddard solvent	TWA	100 ppm	US. ACGIH Threshold Limit Values (2008)
Solvent naphtha (petroleum), medium aliph. - Non-aerosol. - as total hydrocarbon vapor	TWA	200 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Solvent naphtha (petroleum), medium aliph. - Non-aerosol. - as total hydrocarbon vapor	TWA	200 mg/m3	Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act) (03 2014)
Solvent naphtha (petroleum), medium aliph. - Vapor. - as total hydrocarbons	8 HR ACL	200 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)
	15 MIN ACL	250 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)

Solvent naphtha (petroleum), medium aliph. - Vapor. - as total hydrocarbon vapor	TWA	200 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (07 2009)
Solvent naphtha (petroleum), medium aliph.	TWA	400 ppm 1,590 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (07 2009)
Solvent naphtha (petroleum), medium aliph. - Non-aerosol. - as total hydrocarbon vapor	TWA	200 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (05 2013)
Solvent naphtha (petroleum), medium aliph.	8 HR ACL	400 ppm	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)
	15 MIN ACL	500 ppm	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)
Solvent naphtha (petroleum), medium aliph.	TWA	400 ppm 1,590 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Solvent naphtha (petroleum), medium aliph. - Non-aerosol. - as total hydrocarbon vapor	TWA	200 mg/m3	US. ACGIH Threshold Limit Values (03 2014)
Ethanol, 2,2'-iminobis-	TWA	2 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (07 2009)
Ethanol, 2,2'-iminobis-	8 HR ACL	2 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)
	15 MIN ACL	4 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)
Ethanol, 2,2'-iminobis- - Inhalable fraction and vapor.	TWA	1 mg/m3	Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act) (03 2011)
Ethanol, 2,2'-iminobis- - Inhalable fraction and vapor.	TWA	1 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Ethanol, 2,2'-iminobis-	TWA	2 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (05 2013)
Ethanol, 2,2'-iminobis-	TWA	3 ppm 13 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Ethanol, 2,2'-iminobis- - Inhalable fraction and vapor.	TWA	1 mg/m3	US. ACGIH Threshold Limit Values (2009)
Distillates (petroleum), hydrotreated heavy naphthenic - Mist.	TWA	5 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (07 2009)
	STEL	10 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (07 2009)
Distillates (petroleum), hydrotreated heavy naphthenic	8 HR ACL	5 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)
	15 MIN ACL	10 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)
Distillates (petroleum), hydrotreated heavy naphthenic - Mist.	TWA	0.2 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (05 2013)
Distillates (petroleum), hydrotreated heavy naphthenic - Inhalable fraction.	TWA	5 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)
Distillates (petroleum), hydrotreated heavy naphthenic - Mist.	STEL	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Distillates (petroleum), hydrotreated heavy naphthenic - Inhalable fraction.	TWA	5 mg/m3	Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act) (03 2014)
	TWA	1 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (05 2013)
	TWA	5 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)

	TWA	5 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)
Distillates (petroleum), hydrotreated heavy naphthenic - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (03 2014)
Molybdenum sulfide (MoS2) - Total - as Mo	TWA	10 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (07 2009)
Molybdenum sulfide (MoS2) - Respirable. - as Mo	TWA	3 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (07 2009)
Molybdenum sulfide (MoS2) - Inhalable	TWA	10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Molybdenum sulfide (MoS2) - Respirable.	TWA	3 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Molybdenum sulfide (MoS2) - Inhalable fraction. - as Mo	TWA	10 mg/m3	Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act) (03 2011)
Molybdenum sulfide (MoS2) - Respirable fraction. - as Mo	TWA	3 mg/m3	Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act) (03 2011)
Molybdenum sulfide (MoS2) - Respirable fraction. - as Mo	TWA	3 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)
Molybdenum sulfide (MoS2) - Inhalable fraction. - as Mo	TWA	10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Molybdenum sulfide (MoS2) - Inhalable fraction. - as Mo	8 HR ACL	10 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)
	15 MIN ACL	20 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)
Molybdenum sulfide (MoS2) - as Mo	TWA	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Molybdenum sulfide (MoS2) - Respirable fraction. - as Mo	TWA	3 mg/m3	US. ACGIH Threshold Limit Values (2009)
Molybdenum sulfide (MoS2) - Inhalable fraction. - as Mo	TWA	10 mg/m3	US. ACGIH Threshold Limit Values (2009)
Graphite - Respirable.	TWA	2 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Graphite - Respirable fraction.	TWA	2 mg/m3	Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act) (03 2011)
Graphite - Respirable.	TWA	2 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (07 2009)
Graphite - Respirable fraction.	TWA	2 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Graphite - Respirable fraction.	8 HR ACL	2 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)
	15 MIN ACL	4 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)
Graphite - Respirable dust.	TWA	2 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Graphite - Respirable fraction.	TWA	2 mg/m3	US. ACGIH Threshold Limit Values (2008)
Distillates (petroleum), solvent-refined heavy paraffinic - Mist.	STEL	10 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (07 2009)
Distillates (petroleum), solvent-refined heavy paraffinic	8 HR ACL	5 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)
Distillates (petroleum), solvent-refined heavy paraffinic - Mist.	TWA	0.2 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	1 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	5 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (07 2009)

Distillates (petroleum), solvent-refined heavy paraffinic - Inhalable fraction.	TWA	5 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)
	TWA	5 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)
Distillates (petroleum), solvent-refined heavy paraffinic - Mist.	TWA	5 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
	15 MIN ACL	10 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)
	STEL	10 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Distillates (petroleum), solvent-refined heavy paraffinic - Inhalable fraction.	TWA	5 mg/m3	Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act) (03 2011)
Distillates (petroleum), solvent-refined heavy paraffinic - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (01 2010)
Benzene, 1,2,4-trimethyl-	TWA	25 ppm	Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act) (03 2011)
Benzene, 1,2,4-trimethyl-	8 HR ACL	25 ppm	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)
Benzene, 1,2,4-trimethyl-	TWA	25 ppm	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Benzene, 1,2,4-trimethyl-	TWA	25 ppm 123 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (10 2006)
Benzene, 1,2,4-trimethyl-	TWA	25 ppm	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Benzene, 1,2,4-trimethyl-	TWA	25 ppm 123 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
	15 MIN ACL	30 ppm	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)
Benzene, 1,2,4-trimethyl-	TWA	25 ppm	US. ACGIH Threshold Limit Values (2008)
Naphthalene	STEL	15 ppm 79 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (10 2006)
	TWA	10 ppm 52 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (10 2006)
Naphthalene	TWA	10 ppm	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Naphthalene	TWA	10 ppm	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	STEL	15 ppm	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Naphthalene	TWA	10 ppm	Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act) (03 2011)
Naphthalene	15 MIN ACL	15 ppm	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)
	8 HR ACL	10 ppm	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)
Naphthalene	STEL	15 ppm 79 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
	TWA	10 ppm 52 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)



Naphthalene	TWA	10 ppm	US. ACGIH Threshold Limit Values (2008)
Benzene, ethyl-	TWA	20 ppm	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)
Benzene, ethyl-	TWA	20 ppm	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (09 2011)
Benzene, ethyl-	TWA	100 ppm 434 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (10 2006)
	STEL	125 ppm 543 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) (10 2006)
Benzene, ethyl-	15 MIN ACL	125 ppm	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)
Benzene, ethyl-	TWA	100 ppm 434 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
	8 HR ACL	100 ppm	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) (05 2009)
Benzene, ethyl-	TWA	20 ppm	Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act) (03 2011)
	STEL	125 ppm 543 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Benzene, ethyl-	TWA	20 ppm	US. ACGIH Threshold Limit Values (12 2010)

**Appropriate Engineering Controls**

No data available.

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

**General information:** Provide easy access to water supply and eye wash facilities. Good general ventilation (typically 10 air changes per hour) 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. If exposure limits have not been established, maintain airborne levels to an acceptable level.

**Eye/face protection:** Wear safety glasses with side shields (or goggles).

**Skin Protection**

**Hand Protection:** No data available.

**Other:** No data available.

**Respiratory Protection:** In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.

**Hygiene measures:** Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Avoid contact with eyes. When using do not smoke.

**9. Physical and chemical properties**

**Appearance**

**Physical state:** liquid  
**Form:** Spray Aerosol  
**Color:** No data available.  
**Odor:** No data available.  
**Odor threshold:** No data available.  
**pH:** No data available.  
**Melting point/freezing point:** No data available.

<b>Initial boiling point and boiling range:</b>	152.62 °C
<b>Flash Point:</b>	-104.4 °C
<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>Density:</b>	No data available.
<b>Relative density:</b>	No data available.
<b>Solubility(ies)</b>	
<b>Solubility in water:</b>	No data available.
<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>	No data available.

## 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>	No data available.
<b>Conditions to avoid:</b>	Avoid heat or contamination.
<b>Incompatible Materials:</b>	No data available.
<b>Hazardous Decomposition Products:</b>	No data available.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation:</b>	No data available.
<b>Skin Contact:</b>	No data available.
<b>Eye contact:</b>	No data available.
<b>Ingestion:</b>	No data available.

### Symptoms related to the physical, chemical and toxicological characteristics

<b>Inhalation:</b>	No data available.
--------------------	--------------------

<b>Skin Contact:</b>	No data available.
<b>Eye contact:</b>	No data available.
<b>Ingestion:</b>	No data available.

#### Information on toxicological effects

##### Acute toxicity (list all possible routes of exposure)

###### Oral

**Product:** Not classified for acute toxicity based on available data.

###### Specified substance(s):

	LD 50 (Rat): > 5,000 mg/kg
Stoddard solvent	LD 50: > 2,000 mg/kg
Solvent naphtha (petroleum), medium aliph.	LD 50 (Rat): > 5,000 mg/kg
Amides, coco, N,N-bis(hydroxyethyl)	LD 50: > 2,000 mg/kg
Ethanol, 2,2'-iminobis-	LD 50 (Rat): 1,100 mg/kg
Distillates (petroleum), hydrotreated heavy naphthenic	LD 50 (Rat): > 5,000 mg/kg
Molybdenum sulfide (MoS <sub>2</sub> )	LD 50: > 5,000 mg/kg
Sulfonic acids, petroleum, calcium salts	LD 50 (Rat): > 16,000 mg/kg
Graphite	LD 0 (Rat): >= 2,000 mg/kg LD 50 (Rat): > 2,000 mg/kg
Distillates (petroleum), solvent-refined heavy paraffinic	LD 50 (Rat): > 5,000 mg/kg
Benzene, 1,2,4-trimethyl-	LD 50 (Rat): 6,000 mg/kg
Naphthalene	LD 50 (Rat): > 2,000 mg/kg
Benzene, ethyl-	LD 50 (Rat): 5.46 g/kg LD 50 (Rat): 3,500 mg/kg

###### Dermal

**Product:** ATEmix: 219,881.62 mg/kg

###### Inhalation

**Product:** Not classified for acute toxicity based on available data.

**Specified substance(s):**

	LC 50 (Rat): 10.5 mg/l
Propane	LC 50 (Mouse): 1,237 mg/l
Stoddard solvent	LC 50: > 5 mg/l LC 50: > 20 mg/l
Solvent naphtha (petroleum), medium aliph.	LC 50: > 20 mg/l LC 50: > 5 mg/l
Amides, coco, N,N- bis(hydroxyethyl)	LC 50: > 5 mg/l LC 50: > 20 mg/l
Ethanol, 2,2'-iminobis-	LC 0 (Rat): 3.35 mg/l
Distillates (petroleum), hydrotreated heavy naphthenic	LC 50 (Rat): 10.5 mg/l LC 50 (Rat): > 5.53 mg/l
Molybdenum sulfide (MoS <sub>2</sub> )	LC 50: > 100 mg/l LC 50: > 10 mg/l
Sulfonic acids, petroleum, calcium salts	LC 50 (Rat): > 1.9 mg/l
Graphite	LC 50 (Rat): > 20 mg/l
Distillates (petroleum), solvent-refined heavy paraffinic	LC 50 (Rat): > 5.53 mg/l
Benzene, ethyl-	LC 50: 11 mg/l

**Repeated dose toxicity**

**Product:** No data available.

**Specified substance(s):**

	NOAEL (Rat(Female, Male), Inhalation): > 980 mg/m <sup>3</sup> Inhalation Experimental result, Key study LOAEL (Mouse(Male), Dermal, 24 Months): 100 mg/kg Dermal Experimental result, Key study NOAEL (Rat(Female, Male), Dermal, 13 Weeks): >= 2,000 mg/kg Dermal Experimental result, Key study
Propane	NOAEL (Rat(Female, Male), Inhalation, >= 28 d): 4,000 ppm(m) Inhalation Experimental result, Key study LOAEL (Rat(Female, Male), Inhalation, >= 28 d): 12,000 ppm(m) Inhalation Experimental result, Key study
Stoddard solvent	NOAEL (Rat, Inhalation - vapor): 1.9 mg/l (Target Organ(s): Nervous System)
Solvent naphtha	LOAEL (Rat(Female), Oral, 70 - 147 d): 750 mg/kg (Rat(Female), Oral, 70 -

(petroleum), medium aliph.	147 d): 750 mg/kg Oral Experimental result, Key study LOAEL (Rat(Female, Male), Inhalation - vapor): 0.024 mg/l (Target Organ(s): Nervous System) Inhalation Experimental result, Key study LOAEL (Rabbit(Female, Male), Dermal): 200 mg/kg (Rabbit(Female, Male), Dermal): 200 mg/kg Dermal Experimental result, Supporting study
Ethanol, 2,2'-iminobis-	LOAEL (Rat(Female), Oral, 13 Weeks): 14 mg/kg Oral Experimental result, Key study LOAEL (Rat(Female, Male), Dermal, 13 Weeks): 32 mg/kg Dermal Experimental result, Key study NOAEL (Rat(Female, Male), Inhalation): 3 mg/m3 Inhalation Experimental result, Key study
Distillates (petroleum), hydrotreated heavy naphthenic	NOAEL (Rat(Female, Male), Inhalation): > 980 mg/m3 Inhalation Experimental result, Key study NOAEL (Rat(Female, Male), Dermal, 13 Weeks): >= 2,000 mg/kg Dermal Experimental result, Key study
Sulfonic acids, petroleum, calcium salts	NOAEL (Rat, Oral, 28 d): 1,000 mg/kg Oral Experimental result, Supporting study NOAEL (Rat, Dermal, 28 d): > 1,000 mg/kg Dermal Experimental result, Key study
Graphite	NOAEL (Rat(Female, Male), Inhalation): 12 mg/m3 Inhalation Experimental result, Key study NOAEL (Rat(Female), Oral): 930 mg/kg Oral Experimental result, Key study
Distillates (petroleum), solvent-refined heavy paraffinic	NOAEL (Rat(Female, Male), Inhalation): 220 mg/m3 Inhalation Experimental result, Key study LOAEL (Rat(Male), Oral, 13 Weeks): 125 mg/kg Oral Read-across from supporting substance (structural analogue or surrogate), Key study NOAEL (Rat(Female, Male), Dermal, 13 Weeks): >= 2,000 mg/kg Dermal Experimental result, Key study
Benzene, 1,2,4-trimethyl-	NOAEL (Rat(Female, Male), Oral, 90 - 91 d): 600 mg/kg Oral Read-across from supporting substance (structural analogue or surrogate), Key study NOAEL (Rat(Female, Male), Inhalation): 1,800 mg/m3 Inhalation Experimental result, Key study
Naphthalene	LOAEL (Rat(Female, Male), Inhalation, 13 Weeks): 2 ppm(m) Inhalation Experimental result, Key study NOAEL (Mouse(Female, Male), Oral, 90 d): 133 mg/kg Oral Experimental result, Key study NOAEL (Rat(Female, Male), Dermal, 13 Weeks): 300 mg/kg Dermal Experimental result, Key study
Benzene, ethyl-	NOAEL (Rabbit, Inhalation): 0.1 mg/l Inhalation Experimental result, Supporting study NOAEL (Rabbit(Female, Male), Inhalation, 186 - 214 d): 400 ppm(m) Inhalation Experimental result, Supporting study NOAEL (Mouse(Female, Male), Inhalation, 104 Weeks): 75 ppm(m) Inhalation Experimental result, Key study LOAEL (Rat(Female, Male), Inhalation, <= 6 Months): 400 ppm(m) Inhalation Experimental result, Supporting study NOAEL (Rat(Female, Male), Oral, 28 d): 75 mg/kg Oral Experimental result, Key study

**Skin Corrosion/Irritation**  
**Product:**

No data available.

**Specified substance(s):**

in vivo (Rabbit): Not irritant Experimental result, Key study

Distillates (petroleum), hydrotreated heavy naphthenic

in vivo (Rabbit): Not irritant Experimental result, Key study

Sulfonic acids, petroleum, calcium salts	in vivo (Rabbit): Not irritant Experimental result, Key study
Graphite	in vivo (Rabbit): Not irritant Experimental result, Key study
Distillates (petroleum), solvent-refined heavy paraffinic	in vivo (Rabbit): Not irritant Experimental result, Key study
Benzene, 1,2,4-trimethyl-	in vivo (Rabbit): Irritating Read-across from supporting substance (structural analogue or surrogate), Supporting study
Naphthalene	in vivo (Rabbit): Not irritant Experimental result, Key study

### Serious Eye Damage/Eye Irritation

**Product:** No data available.

#### Specified substance(s):

Solvent naphtha (petroleum), medium aliph.	Rabbit, 48 hrs: Not irritating Rabbit, 24 - 72 hrs: Not irritating
Distillates (petroleum), hydrotreated heavy naphthenic	Rabbit, 48 hrs: Not irritating
Sulfonic acids, petroleum, calcium salts	Rabbit, 24 - 72 hrs: Not irritating
Graphite	Rabbit, 24 - 72 hrs: Not irritating
Distillates (petroleum), solvent-refined heavy paraffinic	Rabbit, 48 hrs: Not irritating
Naphthalene	Guinea pig, 1 - 3 d: Not irritating
Benzene, ethyl-	Rabbit, 7 d: Slightly irritating

### Respiratory or Skin Sensitization

**Product:** No data available.

#### Specified substance(s):

Solvent naphtha (petroleum), medium aliph.	Skin sensitization:, in vivo (Guinea pig): Non sensitising Skin sensitization:, in vivo (Guinea pig): Non sensitising
Ethanol, 2,2'-iminobis-Distillates (petroleum), hydrotreated heavy naphthenic	Skin sensitization:, in vivo (Guinea pig): Non sensitising Skin sensitization:, in vivo (Guinea pig): Non sensitising
Sulfonic acids, petroleum, calcium salts	Skin sensitization:, in vivo (Guinea Pig): Sensitising
Distillates (petroleum), solvent-refined heavy paraffinic	Skin sensitization:, in vivo (Guinea pig): Non sensitising
Benzene, 1,2,4-trimethyl-	Skin sensitization:, in vivo (Guinea pig): Non sensitising
Naphthalene	Skin sensitization:, in vivo (Guinea pig): Non sensitising

Benzene, ethyl-

Skin sensitization:, in vivo (Human): Non sensitising

#### Carcinogenicity

##### Product:

No data available.

##### Specified substance(s):

Stoddard solvent

Potential cancer hazard.

Naphthalene

Suspect cancer hazard - may cause cancer.

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

Amides, coco, N,N-bis(hydroxyethyl)

Overall evaluation: 2B. Possibly carcinogenic to humans.

Ethanol, 2,2'-iminobis-

Overall evaluation: 2B. Possibly carcinogenic to humans.

Distillates (petroleum), solvent-refined heavy paraffinic

Overall evaluation: 3. Not classifiable as to carcinogenicity to humans.

Overall evaluation: 1. Carcinogenic to humans.

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

Distillates (petroleum), solvent-refined heavy paraffinic

Year first listed as Known carcinogen: 1980. Hazard Designation: Known To Be Human Carcinogen.

#### ACGIH Carcinogen List:

Distillates (petroleum), solvent-refined heavy paraffinic

Group A2: Suspected human carcinogen.

#### Germ Cell Mutagenicity

##### In vitro

##### Product:

No data available.

##### In vivo

##### Product:

No data available.

#### Reproductive toxicity

##### Product:

No data available.

#### Specific Target Organ Toxicity - Single Exposure

##### Product:

No data available.

#### Specific Target Organ Toxicity - Repeated Exposure

##### Product:

No data available.

##### Specified substance(s):

Ethanol, 2,2'-iminobis-

Category 2

##### Target Organs

Specific Target Organ Toxicity - Repeated Exposure: Nervous System

#### Aspiration Hazard

<b>Product:</b>	No data available.
<b>Specified substance(s):</b>	
Stoddard solvent	May be fatal if swallowed and enters airways.
Solvent naphtha (petroleum), medium aliph.	May be fatal if swallowed and enters airways.
<b>Other effects:</b>	No data available.

## 12. Ecological information

### Ecotoxicity:

#### Acute hazards to the aquatic environment:

##### Fish

<b>Product:</b>	No data available.
<b>Specified substance(s):</b>	
	LL 50 (Pimephales promelas, 96 h): > 100 mg/l Experimental result, Key study
Propane	LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study
Solvent naphtha (petroleum), medium aliph.	LL 50 (Oncorhynchus mykiss, 96 h): 2 - 5 mg/l Experimental result, Key study
Ethanol, 2,2'-iminobis-	LC 50 (Pimephales promelas, 96 h): 1,370 mg/l Experimental result, Key study
Distillates (petroleum), hydrotreated heavy naphthenic	LL 50 (Pimephales promelas, 96 h): > 100 mg/l Experimental result, Key study
Sulfonic acids, petroleum, calcium salts	LL 0 (Cyprinodon variegatus, 96 h): 10,000 mg/l Experimental result, Key study
Graphite	LC 50 (Danio rerio, 96 h): > 100 mg/l Experimental result, Key study
Distillates (petroleum), solvent-refined heavy paraffinic	LL 50 (Pimephales promelas, 96 h): > 100 mg/l Experimental result, Key study
Benzene, 1,2,4-trimethyl-	LC 50 (Pimephales promelas, 96 h): 7.72 mg/l Experimental result, Key study
Naphthalene	LC 50 (Oncorhynchus mykiss, 96 h): 1.6 mg/l Experimental result, Key study
Benzene, ethyl-	LC 50 (Fathead minnow (Pimephales promelas), 96 h): 38.9 - 62.83 mg/l Mortality

##### Aquatic Invertebrates

<b>Product:</b>	No data available.
<b>Specified substance(s):</b>	
	EC 50 (Daphnia magna, 48 h): > 10,000 mg/l Experimental result, Key study



Solvent naphtha (petroleum), medium aliph.	EC 50 (Daphnia magna, 48 h): 1.4 mg/l Experimental result, Key study
Ethanol, 2,2'-iminobis-	EC 50 (Daphnia magna, 48 h): 55 mg/l Experimental result, Supporting study EC 50 (Ceriodaphnia dubia, 48 h): 30.1 mg/l Experimental result, Key study
Distillates (petroleum), hydrotreated heavy naphthenic	EC 50 (Daphnia magna, 48 h): > 10,000 mg/l Experimental result, Key study NOAEL (Daphnia magna, 48 h): >= 10,000 mg/l Experimental result, Key study
Sulfonic acids, petroleum, calcium salts	EC 50 (Daphnia magna, 48 h): > 1,000 mg/l Experimental result, Key study
Graphite	NOAEL (Daphnia magna, 48 h): >= 100 mg/l Experimental result, Key study EC 50 (Daphnia magna, 48 h): > 100 mg/l Experimental result, Key study
Distillates (petroleum), solvent-refined heavy paraffinic	EC 50 (Daphnia magna, 48 h): > 10,000 mg/l Experimental result, Key study
Benzene, 1,2,4-trimethyl-	LC 50 (Daphnia magna, 48 h): 3.6 mg/l Experimental result, Key study
Naphthalene	EC 50 (Daphnia magna, 48 h): 2.16 mg/l Experimental result, Key study
Benzene, ethyl-	LC 50 (Water flea (Daphnia magna), 24 h): 57 - 100 mg/l Mortality

#### Chronic hazards to the aquatic environment:

##### Fish

**Product:** No data available.

##### Specified substance(s):

	NOAEL (Oncorhynchus mykiss): >= 1,000 mg/l QSAR QSAR, Supporting study
Solvent naphtha (petroleum), medium aliph.	NOAEL (Oncorhynchus mykiss): 0.098 mg/l QSAR QSAR, Key study
Ethanol, 2,2'-iminobis-	NOAEL (Various): > 1 mg/l Estimated by calculation, Supporting study
Distillates (petroleum), hydrotreated heavy naphthenic	NOAEL (Oncorhynchus mykiss): >= 1,000 mg/l QSAR QSAR, Supporting study
Graphite	NOAEL (Danio rerio): 120 - 360 mg/l Experimental result, Not specified LOAEL (Danio rerio): >= 120 mg/l Experimental result, Not specified
Distillates (petroleum), solvent-refined heavy paraffinic	NOAEL (Oncorhynchus mykiss): >= 1,000 mg/l QSAR QSAR, Supporting study
Naphthalene	LC 50 (Oncorhynchus kisutch): 2.1 mg/l Experimental result, Key study NOAEL (Oncorhynchus kisutch): +/- 0.37 mg/l Experimental result, Key study

##### Aquatic Invertebrates

**Product:** No data available.

##### Specified substance(s):

NOAEL (Daphnia magna): >= 1,000 mg/l Experimental result, Supporting

	study
Solvent naphtha (petroleum), medium aliph.	NOAEL (Daphnia magna): 0.48 mg/l Experimental result, Key study
Ethanol, 2,2'-iminobis-	NOAEL (Daphnia magna): 0.78 mg/l Experimental result, Key study
Distillates (petroleum), hydrotreated heavy naphthenic	NOAEL (Daphnia magna): 10 mg/l Experimental result, Key study
Graphite	NOAEL (Daphnia magna): 47 mg/l Experimental result, Key study
Distillates (petroleum), solvent-refined heavy paraffinic	NOAEL (Daphnia magna): 10 mg/l Experimental result, Key study
Naphthalene	NOAEL (Daphnia pulex): 0.59 mg/l Experimental result, Key study
Benzene, ethyl-	NOAEL (Ceriodaphnia dubia): 1 mg/l Other, Key study LOAEL (Ceriodaphnia dubia): 1.7 mg/l Other, Key study LC 50 (Ceriodaphnia dubia): 3.6 mg/l Other, Key study IC 50 (Ceriodaphnia dubia): 3.3 mg/l Other, Key study LC 50 (Ceriodaphnia dubia): 3.2 mg/l Other, Key study

**Toxicity to Aquatic Plants**  
**Product:**

No data available.

**Persistence and Degradability**

**Biodegradation**  
**Product:**

No data available.

**Specified substance(s):**

	2 - 8 % (28 d) Detected in water. Experimental result, Supporting study 31 % (28 d) Detected in water. Experimental result, Supporting study
Propane	100 % (385.5 h) Detected in water. Experimental result, Key study 50 % (3.19 d) Detected in water. QSAR, Weight of Evidence study
Solvent naphtha (petroleum), medium aliph.	61 % Detected in water. Experimental result, Supporting study
Ethanol, 2,2'-iminobis-	93 % (28 d) Detected in water. Experimental result, Key study
Distillates (petroleum), hydrotreated heavy naphthenic	31 % (28 d) Detected in water. Read-across based on grouping of substances (category approach), Supporting study 2 - 4 % (28 d) Detected in water. Experimental result, Supporting study
Sulfonic acids, petroleum, calcium salts	8 % (28 d) Detected in water. Read-across based on grouping of substances (category approach), Key study 8.6 % (28 d) Detected in water. Experimental result, Supporting study
Graphite	6 % (28 d) Detected in water. Experimental result, Supporting study 26 % (5 h) Sediment Experimental result, Not specified
Distillates (petroleum), solvent-refined heavy paraffinic	2 - 4 % (28 d) Detected in water. Experimental result, Supporting study 31 % (28 d) Detected in water. Read-across based on grouping of substances (category approach), Supporting study

Benzene, 1,2,4-trimethyl-	96 % (13 d) Detected in water. Experimental result, Weight of Evidence study 80 % (5 d) Detected in water. Read-across from supporting substance (structural analogue or surrogate), Weight of Evidence study 38 % (28 d) Detected in water. Read-across from supporting substance (structural analogue or surrogate), Weight of Evidence study 92 % (28 d) Detected in water. Read-across from supporting substance (structural analogue or surrogate), Weight of Evidence study
Naphthalene	2 % (4 Weeks) Detected in water. Experimental result, Key study
Benzene, ethyl-	60 % (24 h) Detected in water. Other, Supporting study 100 % Detected in water. Other, Supporting study

#### BOD/COD Ratio

**Product:** No data available.

#### Bioaccumulative potential

##### Bioconcentration Factor (BCF)

**Product:** No data available.

##### Specified substance(s):

Ethanol, 2,2'-iminobis-	Bioconcentration Factor (BCF): 9.2 Aquatic sediment Estimated by calculation, Weight of Evidence study
Graphite	Eisenia fetida, Terrestrial Experimental result, Weight of Evidence study
Benzene, 1,2,4-trimethyl-	Cyprinus carpio, Bioconcentration Factor (BCF): 33 - < 275 Aquatic sediment Experimental result, Supporting study
Naphthalene	Cyprinus carpio, Bioconcentration Factor (BCF): 23 - 146 Aquatic sediment Experimental result, Key study
Benzene, ethyl-	Oncorhynchus kisutch, Bioconcentration Factor (BCF): 1 Aquatic sediment Other, Key study

#### Partition Coefficient n-octanol / water (log Kow)

**Product:** No data available.

##### Specified substance(s):

Naphthalene	Log Kow: 3.33 - 3.45 22 °C No Experimental result, Supporting study
Benzene, ethyl-	Log Kow: 3.13 - 3.14 No Other, Supporting study

**Mobility in soil:** No data available.

#### Known or predicted distribution to environmental compartments

Propane	No data available.
Stoddard solvent	No data available.
Solvent naphtha (petroleum), medium aliph.	No data available.
Amides, coco, N,N- bis(hydroxyethyl)	No data available.
Ethanol, 2,2'-iminobis-	No data available.
Distillates (petroleum), hydrotreated heavy naphthenic	No data available.
Molybdenum sulfide (MoS <sub>2</sub> )	No data available.
Sulfonic acids, petroleum, calcium salts	No data available.
Graphite	No data available.
Distillates (petroleum), solvent-refined heavy paraffinic	No data available.
Benzene, 1,2,4-trimethyl-	No data available.
Naphthalene	No data available.
Benzene, ethyl-	No data available.

**Other adverse effects:** Harmful to aquatic organisms.

### 13. Disposal considerations

**Disposal instructions:** Discharge, treatment, or disposal may be subject to national, state, or local laws.

**Contaminated Packaging:** No data available.

### 14. Transport information

#### TDG

UN Number:	UN 1950
UN Proper Shipping Name:	Aerosols, flammable
Transport Hazard Class(es)	
Class:	2.1
Label(s):	—
EmS No.:	
Packing Group:	—
Environmental Hazards:	No
Marine Pollutant	No
Special precautions for user:	Not regulated.

#### IMDG

UN Number:	UN 1950
UN Proper Shipping Name:	Aerosols, flammable
Transport Hazard Class(es)	
Class:	2
Label(s):	—
EmS No.:	
Packing Group:	—
Environmental Hazards:	No
Marine Pollutant	No

Special precautions for user: Not regulated.

#### IATA

UN Number: UN 1950  
Proper Shipping Name: Aerosols, flammable  
Transport Hazard Class(es):  
Class: 2.1  
Label(s): –  
Packing Group: –  
  
Environmental Hazards: No  
Marine Pollutant: No

Special precautions for user: Not regulated.

### 15. Regulatory information

#### Canada Federal Regulations

##### List of Toxic Substances (CEPA, Schedule 1)

###### Chemical Identity

Stoddard solvent  
Amides, coco, N,N-  
bis(hydroxyethyl)  
Graphite  
Naphthalene

##### Export Control List (CEPA 1999, Schedule 3)

###### Chemical Identity

Stoddard solvent  
Amides, coco, N,N-  
bis(hydroxyethyl)

##### National Pollutant Release Inventory (NPRI)

##### Canada. National Pollutant Release Inventory (NPRI) Substances, Part 5, VOCs with Additional Reporting Requirements

NPRI PT5	PropaneStoddard solventSolvent naphtha (petroleum), medium aliph.Amides, coco, N,N- bis(hydroxyethyl)Benzene, 1,2,4-trimethyl-
----------	---

##### Canada. National Pollutant Release Inventory (NPRI) (Schedule 1, Parts 1-4)

NPRI	Stoddard solventAmides, coco, N,N- bis(hydroxyethyl)Graphite
------	--

#### Greenhouse Gases

###### Chemical Identity

Stoddard solvent  
Amides, coco, N,N-  
bis(hydroxyethyl)

#### Controlled Drugs and Substances Act

CA CDSI	Stoddard solventAmides, coco, N,N- bis(hydroxyethyl)
CA CDSII	Stoddard solventAmides, coco, N,N- bis(hydroxyethyl)

CA CDSIII	Stoddard solventAmides, coco, N,N- bis(hydroxyethyl)
CA CDSIV	Stoddard solventAmides, coco, N,N- bis(hydroxyethyl)
CA CDSV	Stoddard solventAmides, coco, N,N- bis(hydroxyethyl)
CA CDSVII	Stoddard solventAmides, coco, N,N- bis(hydroxyethyl)
CA CDSVIII	Stoddard solventAmides, coco, N,N- bis(hydroxyethyl)

#### Precursor Control Regulations

##### Chemical Identity

Stoddard solvent  
Amides, coco, N,N-  
bis(hydroxyethyl)

#### International regulations

##### Montreal protocol

Stoddard solvent  
Amides, coco, N,N-  
bis(hydroxyethyl)

##### Stockholm convention

Stoddard solvent	--
Amides, coco, N,N- bis(hydroxyethyl)	--

##### Rotterdam convention

Stoddard solvent	- - - - -UVCBs-organic- - - - -
Amides, coco, N,N- bis(hydroxyethyl)	- - -UVCBs-biological- - - - -

##### Kyoto protocol

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

Issue Date: 06/28/2019

Revision Date: No data available.

Version #: 1.0

Further Information: No data available.

**Disclaimer:** This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.