



# SAFETY DATA SHEET

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

### Product identifier

**Trade name or designation of the mixture** V-Twin Semi-Synthetic Engine Oil 20W-50

**Product code** 96910

**SDS number** 6262

**Registration number** -

**Synonyms** None.

**Date of first issue** 27-January-2010

**Version number** 1,1

**Revision date** 11-January-2012

**Supersedes date** 03-December-2011

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

**Identified uses** Not available.

**Uses advised against** None known.

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

Bel-Ray Company, Inc.  
Bel-Ray Europe S.A.  
Avenue Louise, 304  
P.O. Box 526  
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Europe: +32 (0) 2 201 18 87  
CHEMTREC: 800-424-9300 (USA)  
CHEMTREC: +1 703-527-3887 (outside USA - call collect)  
Europe Emergency: 112

## Section 2: Hazards identification

### Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

### Classification according to Directive 67/548/EEC or 1999/45/EC as amended

This preparation does not meet the criteria for classification according to Directive 1999/45/EC as amended.

### Classification according to Regulation (EC) No 1272/2008 as amended

#### Environmental hazards

Hazardous to the aquatic environment - long-term hazard

Category 3 (98,08% of the mixture consists of ingredient(s) of unknown hazards to the aquatic environment.)

Harmful to aquatic life with long lasting effects.

### Hazard summary

**Physical hazards** Not classified for physical hazards.

**Health hazards** Not classified for health hazards. However, occupational exposure to the mixture or substance(s) may cause adverse health effects.

**Environmental hazards** Not classified for hazards to the environment.

**Specific hazards** Not available.

**Main symptoms** Not available.

## Label elements

### Label according to Regulation (EC) No. 1272/2008 as amended

<b>Hazard statements</b>	Harmful to aquatic life with long lasting effects.
<b>Precautionary statements</b>	
<b>Prevention</b>	Keep out of reach of children. Read label before use. Avoid release to the environment.
<b>Response</b>	If medical advice is needed, have product container or label at hand.
<b>Storage</b>	Not available.
<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Supplemental label information</b>	Contains 2,5-bis(octyldithio)-1,3,4-thiadiazole, Dioctyl Disulphide. May produce an allergic reaction.
<b>Other hazards</b>	Not assigned.

## Section 3: Composition/information on ingredients

### Mixture

#### General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
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Distillates (petroleum), hydrotreated heavy naphthenic	0 - < 90	64742-52-5 265-155-0	-	649-465-00-7	#
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**Classification:**    **DSD:** -  
                              **CLP:** -

Distillates (petroleum), solvent-refined heavy paraffinic	0 - < 90	64741-88-4 265-090-8	-	649-454-00-7	#
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**Classification:**    **DSD:** -  
                              **CLP:** -

Paraffin oils (petroleum), catalytic de-waxed light	0 - < 90	64742-71-8 265-176-5	-	649-478-00-8	#
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**Classification:**    **DSD:** -  
                              **CLP:** -

White mineral oil (petroleum)	0 - < 90	8042-47-5 232-455-8	-	-	#
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**Classification:**    **DSD:** -  
                              **CLP:** -

Antimony, Tris(dipentylcarbamodithioato)	1 - < 3	15890-25-2 240-028-2	-	051-003-00-9	#
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**Classification:**    **DSD:** Xn;R20/22, N;R51/53  
                              **CLP:** Acute Tox. 4;H302, Acute Tox. 4;H332, Aquatic Chronic 2;H411

Other components below reportable levels    10 - < 20

CLP: Regulation No. 1272/2008.

DSD: Directive 67/548/EEC.

#: This substance has workplace exposure limit(s).

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

**Composition comments**    The full text for all R- and H-phrases is displayed in section 16.

## Section 4: First aid measures

**General information**    Call a physician if symptoms develop or persist.

### Description of first aid measures

**Inhalation**    Move to fresh air. Call a physician if symptoms develop or persist.

**Skin contact**    Rinse skin with water/shower. Get medical attention if irritation develops and persists.

<b>Eye contact</b>	Rinse with water. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Rinse mouth. Do not induce vomiting. If ingestion of a large amount does occur, call a poison control centre immediately. Never give liquid to an unconscious person.
<b>Most important symptoms and effects, both acute and delayed</b>	Not available.
<b>Indication of any immediate medical attention and special treatment needed</b>	Not available.

## Section 5: Firefighting measures

<b>General fire hazards</b>	Not available.
<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Water fog. Foam. Dry powder. Carbon dioxide (CO2).
<b>Unsuitable extinguishing media</b>	Water. Do not use water jet as an extinguisher, as this will spread the fire.
<b>Special hazards arising from the substance or mixture</b>	Not available.
<b>Advice for firefighters</b>	
<b>Special protective equipment for firefighters</b>	Wear suitable protective equipment.
<b>Special firefighting procedures</b>	Water runoff can cause environmental damage.

## Section 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

<b>For non-emergency personnel</b>	Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. In case of spills, beware of slippery floors and surfaces.
<b>For emergency responders</b>	Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the MSDS.

<b>Environmental precautions</b>	Prevent further leakage or spillage if safe to do so. Do not contaminate water. Contact local authorities in case of spillage to drain/aquatic environment. Avoid discharge into drains, water courses or onto the ground.
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<b>Methods and material for containment and cleaning up</b>	Remove sources of ignition. This product is miscible in water.  Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Prevent product from entering drains.  Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.  Never return spills in original containers for re-use.
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<b>Reference to other sections</b>	For personal protection, see section 8. For waste disposal, see section 13.
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## Section 7: Handling and storage

<b>Precautions for safe handling</b>	Avoid prolonged exposure. Avoid release to the environment. Do not empty into drains.
<b>Conditions for safe storage, including any incompatibilities</b>	Room temperature - normal conditions. Keep out of the reach of children.
<b>Specific end use(s)</b>	Not available.

## Section 8: Exposure controls/personal protection

### Control parameters

**Occupational exposure limits****Austria. MAK List**

Components	Type	Value	Form
Antimony, Tris(dipentylcarbamodithioato) (15890-25-2)	MAK	0,5 mg/m <sup>3</sup>	Inhalable fraction.
	STEL	1,5 mg/m <sup>3</sup>	Inhalable fraction.

**Belgium. Exposure Limit Values.**

Components	Type	Value	Form
Antimony, Tris(dipentylcarbamodithioato) (15890-25-2)	TWA	0,5 mg/m <sup>3</sup>	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	STEL	10 mg/m <sup>3</sup>	Mist.
	TWA	5 mg/m <sup>3</sup>	Mist.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	STEL	10 mg/m <sup>3</sup>	Mist.
	TWA	5 mg/m <sup>3</sup>	Mist.
Paraffin oils (petroleum), catalytic de-waxed light (64742-71-8)	STEL	10 mg/m <sup>3</sup>	Mist.
	TWA	5 mg/m <sup>3</sup>	Mist.
White mineral oil (petroleum ) (8042-47-5)	STEL	10 mg/m <sup>3</sup>	Mist.
	TWA	5 mg/m <sup>3</sup>	Mist.

**Bulgaria. OELs. Regulation No 13 of Ministry of Labor & Social Policy, with Ministry of Health, on protection of workers related to exposure to chemical agents at work**

Components	Type	Value
Antimony, Tris(dipentylcarbamodithioato) (15890-25-2)	TWA	0,5 mg/m <sup>3</sup>
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TWA	5 mg/m <sup>3</sup>
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	5 mg/m <sup>3</sup>
Paraffin oils (petroleum), catalytic de-waxed light (64742-71-8)	TWA	5 mg/m <sup>3</sup>
White mineral oil (petroleum ) (8042-47-5)	TWA	5 mg/m <sup>3</sup>

**Cyprus. OELs. Control of factory atmosphere and dangerous substances in factories regulation, PI 311/73, as amended.**

Components	Type	Value
Antimony, Tris(dipentylcarbamodithioato) (15890-25-2)	TWA	0,5 mg/m <sup>3</sup>

**Czech Republic. OELs. Government Decree 361**

Components	Type	Value	Form
Antimony, Tris(dipentylcarbamodithioato) (15890-25-2)	Ceiling	1,5 mg/m <sup>3</sup>	
	TWA	0,5 mg/m <sup>3</sup>	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	Ceiling	1000 mg/m <sup>3</sup>	
	TWA	200 mg/m <sup>3</sup>	
Paraffin oils (petroleum), catalytic de-waxed light (64742-71-8)	Ceiling	10 mg/m <sup>3</sup>	Aerosol
	TWA	5 mg/m <sup>3</sup>	Aerosol
White mineral oil (petroleum ) (8042-47-5)	Ceiling	10 mg/m <sup>3</sup>	Aerosol

**Czech Republic. OELs. Government Decree 361**

Components	Type	Value	Form
	TWA	5 mg/m3	Aerosol

**Denmark. Exposure Limit Values**

Components	Type	Value	Form
Antimony, Tris(dipentylcarbamodithioato) (15890-25-2)	TLV	0,5 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TLV	1 mg/m3	Mist.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TLV	1 mg/m3	Mist.
Paraffin oils (petroleum), catalytic de-waxed light (64742-71-8)	TLV	1 mg/m3	Mist.
White mineral oil (petroleum) (8042-47-5)	TLV	1 mg/m3	Mist.

**Estonia**

No exposure limits noted for the ingredient(s).

**Finland. Workplace Exposure Limits**

Components	Type	Value	Form
Antimony, Tris(dipentylcarbamodithioato) (15890-25-2)	TWA	0,5 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TWA	5 mg/m3	Mist.

**France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984**

Components	Type	Value
Antimony, Tris(dipentylcarbamodithioato) (15890-25-2)	VME	0,5 mg/m3

**Germany**

No exposure limits noted for the ingredient(s).

**Germany - TRGS 900**

No exposure limits noted for the ingredient(s).

**Greece. OELs (Decree No. 90/1999, as amended)**

Components	Type	Value	Form
Antimony, Tris(dipentylcarbamodithioato) (15890-25-2)	TWA	0,5 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TWA	5 mg/m3	Mist.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	5 mg/m3	Mist.
Paraffin oils (petroleum), catalytic de-waxed light (64742-71-8)	TWA	5 mg/m3	Mist.
White mineral oil (petroleum) (8042-47-5)	TWA	5 mg/m3	Mist.

**Hungary. OELs. Joint Decree on Chemical Safety of Workplaces**

Components	Type	Value	Form
Antimony, Tris(dipentylcarbamodithioato) (15890-25-2)	STEL	2 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TWA Ceiling	0,5 mg/m3 5 mg/m3	Mist.

**Hungary. OELs. Joint Decree on Chemical Safety of Workplaces**

Components	Type	Value	Form
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	Ceiling	5 mg/m3	Mist.
Paraffin oils (petroleum), catalytic de-waxed light (64742-71-8)	Ceiling	5 mg/m3	Mist.
White mineral oil (petroleum) (8042-47-5)	Ceiling	5 mg/m3	Mist.

**Iceland. OELs. Regulation 154/1999 on occupational exposure limits**

Components	Type	Value	Form
Antimony, Tris(dipentylcarbamodithioato) (15890-25-2)	TWA	0,5 mg/m3	Dust.
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TWA	1 mg/m3	Mist.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	1 mg/m3	Mist.
Paraffin oils (petroleum), catalytic de-waxed light (64742-71-8)	TWA	1 mg/m3	Mist.
White mineral oil (petroleum) (8042-47-5)	TWA	1 mg/m3	Mist.

**Ireland. Occupational Exposure Limits**

Components	Type	Value	Form
Antimony, Tris(dipentylcarbamodithioato) (15890-25-2)	TWA	0,5 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TWA	0,2 mg/m3	Inhalable fraction.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	0,2 mg/m3	Inhalable fraction.
Paraffin oils (petroleum), catalytic de-waxed light (64742-71-8)	TWA	0,2 mg/m3	Inhalable fraction.
White mineral oil (petroleum) (8042-47-5)	TWA	0,2 mg/m3	Inhalable fraction.

**Italy. OELs**

Components	Type	Value	Form
Antimony, Tris(dipentylcarbamodithioato) (15890-25-2)	TWA	0,5 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TWA	5 mg/m3	Inhalable fraction.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	5 mg/m3	Inhalable fraction.
Paraffin oils (petroleum), catalytic de-waxed light (64742-71-8)	TWA	5 mg/m3	Inhalable fraction.
White mineral oil (petroleum) (8042-47-5)	TWA	5 mg/m3	Inhalable fraction.

**Latvia**

No exposure limits noted for the ingredient(s).

**Lithuania. OELs. Occupational Exposure Limit Values for Hazardous Chemical Substance Concentration, General Requirements (No. 645/169)**

Components	Type	Value	Form
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	STEL	3 mg/m3	Fume and mist.

**Lithuania. OELs. Occupational Exposure Limit Values for Hazardous Chemical Substance Concentration, General Requirements (No. 645/169)**

Components	Type	Value	Form
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	1 mg/m3	Fume and mist.
	STEL	3 mg/m3	Fume and mist.
Paraffin oils (petroleum), catalytic de-waxed light (64742-71-8)	TWA	1 mg/m3	Fume and mist.
	STEL	3 mg/m3	Fume and mist.
White mineral oil (petroleum ) (8042-47-5)	TWA	1 mg/m3	Fume and mist.
	STEL	3 mg/m3	Fume and mist.
	TWA	1 mg/m3	Fume and mist.

**Luxembourg**

No exposure limits noted for the ingredient(s).

**Malta**

No exposure limits noted for the ingredient(s).

**Netherlands. OELs (binding)**

Components	Type	Value	Form
Antimony, Tris(dipentylcarbamodithioato) (15890-25-2)	TWA	0,5 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TWA	5 mg/m3	Mist.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	5 mg/m3	Mist.
Paraffin oils (petroleum), catalytic de-waxed light (64742-71-8)	TWA	5 mg/m3	Mist.
White mineral oil (petroleum ) (8042-47-5)	TWA	5 mg/m3	Mist.

**Norway. Administrative Norms for Contaminants in the Workplace**

Components	Type	Value	Form
Antimony, Tris(dipentylcarbamodithioato) (15890-25-2)	TLV	0,5 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	TLV	1 mg/m3	Mist.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TLV	1 mg/m3	Mist.
Paraffin oils (petroleum), catalytic de-waxed light (64742-71-8)	TLV	1 mg/m3	Mist.
White mineral oil (petroleum ) (8042-47-5)	TLV	1 mg/m3	Mist.

**Poland. MACs. Minister of Labour and Social Policy Regarding Maximum Allowable Concentrations and Intensities in Working Environment**

Components	Type	Value	Form
Antimony, Tris(dipentylcarbamodithioato) (15890-25-2)	TWA	0,5 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	STEL	10 mg/m3	Aerosol
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	5 mg/m3	Aerosol
	STEL	10 mg/m3	Aerosol
	TWA	5 mg/m3	Aerosol

**Poland. MACs. Minister of Labour and Social Policy Regarding Maximum Allowable Concentrations and Intensities in Working Environment**

Components	Type	Value	Form
Paraffin oils (petroleum), catalytic de-waxed light (64742-71-8)	STEL	10 mg/m3	Aerosol
White mineral oil (petroleum ) (8042-47-5)	TWA	5 mg/m3	Aerosol
	STEL	10 mg/m3	Aerosol
	TWA	5 mg/m3	Aerosol

**Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)**

Components	Type	Value	Form
Antimony, Tris(dipentylcarbamodithioato) (15890-25-2)	TWA	0,5 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	STEL	10 mg/m3	Aerosol
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	5 mg/m3	Aerosol
	STEL	10 mg/m3	Aerosol
Paraffin oils (petroleum), catalytic de-waxed light (64742-71-8)	TWA	5 mg/m3	Aerosol
	STEL	10 mg/m3	Aerosol
White mineral oil (petroleum ) (8042-47-5)	TWA	5 mg/m3	Aerosol
	STEL	10 mg/m3	Aerosol
	TWA	5 mg/m3	Aerosol

**Romania. OELs. Protection of workers from exposure to chemical agents at the workplace**

Components	Type	Value	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	STEL	10 mg/m3	
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	5 mg/m3	
	STEL	10 mg/m3	
Paraffin oils (petroleum), catalytic de-waxed light (64742-71-8)	TWA	5 mg/m3	
	STEL	10 mg/m3	
White mineral oil (petroleum ) (8042-47-5)	TWA	5 mg/m3	
	STEL	10 mg/m3	
	TWA	5 mg/m3	

**Slovakia. OELs. Decree of the government of the Slovak Republic concerning protection of health in work with chemical agents**

Components	Type	Value	Form
Antimony, Tris(dipentylcarbamodithioato) (15890-25-2)	Ceiling	1 mg/m3	Total dust.
White mineral oil (petroleum ) (8042-47-5)	TWA	0,5 mg/m3	Total dust.
	TWA	5 mg/m3	Aerosol

**Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)**

Components	Type	Value	Form
Antimony, Tris(dipentylcarbamodithioato) (15890-25-2)	TWA	0,5 mg/m3	Inhalable fraction.

**Spain. Occupational Exposure Limits**

Components	Type	Value	Form
Antimony, Tris(dipentylcarbamodithioato) (15890-25-2)	TWA	0,5 mg/m3	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	STEL	10 mg/m3	Mist.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	5 mg/m3	Mist.
	STEL	10 mg/m3	Mist.
Paraffin oils (petroleum), catalytic de-waxed light (64742-71-8)	TWA	5 mg/m3	Mist.
	STEL	10 mg/m3	Mist.
White mineral oil (petroleum) (8042-47-5)	TWA	5 mg/m3	Mist.
	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.

**Sweden. Occupational Exposure Limit Values**

Components	Type	Value	Form
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	STEL	3 mg/m3	Mist.
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)	TWA	1 mg/m3	Mist.
	STEL	3 mg/m3	Mist.
Paraffin oils (petroleum), catalytic de-waxed light (64742-71-8)	TWA	1 mg/m3	Mist.
	STEL	3 mg/m3	Mist.
White mineral oil (petroleum) (8042-47-5)	TWA	1 mg/m3	Mist.
	STEL	3 mg/m3	Mist.
	TWA	1 mg/m3	Mist.

**Switzerland**

No exposure limits noted for the ingredient(s).

**UK. EH40 Workplace Exposure Limits (WELs)**

Components	Type	Value
Antimony, Tris(dipentylcarbamodithioato) (15890-25-2)	TWA	0,5 mg/m3

**EU, 91/322/EEC, 2000/39/EC, 2006/15/EC**

No exposure limits noted for the ingredient(s).

**Biological limit values****EU, 91/322/EEC, 2000/39/EC, 2006/15/EC**

No biological exposure limits noted for the ingredient(s).

**Finland**

No biological exposure limits noted for the ingredient(s).

**France**

No biological exposure limits noted for the ingredient(s).

**Luxembourg**

No biological exposure limits noted for the ingredient(s).

**Spain**

No biological exposure limits noted for the ingredient(s).

**United Kingdom**

No biological exposure limits noted for the ingredient(s).

**Recommended monitoring procedures**

Follow standard monitoring procedures.

**DNEL**

Not available.

<b>PNEC</b>	Not available.
<b>Exposure controls</b>	
<b>Appropriate engineering controls</b>	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. Provide adequate general and local exhaust ventilation.
<b>Individual protection measures, such as personal protective equipment</b>	
<b>General information</b>	Applicable for industrial settings only: Use personal protective equipment as required.
<b>Eye/face protection</b>	Not normally needed.
<b>Skin protection</b>	
- <b>Hand protection</b>	Not normally needed.
- <b>Other</b>	Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
<b>Respiratory protection</b>	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
<b>Thermal hazards</b>	Not available.
<b>Hygiene measures</b>	Handle in accordance with good industrial hygiene and safety practices.
<b>Environmental exposure controls</b>	Contain spills and prevent releases and observe national regulations on emissions. Environmental manager must be informed of all major releases.

## Section 9: Physical and chemical properties

### Information on basic physical and chemical properties

<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid.
<b>Colour</b>	Not available.
<b>Odour</b>	Not available.
<b>Odour threshold</b>	Not available.
<b>pH</b>	Not applicable.
<b>Melting point/freezing point</b>	Not available.
<b>Boiling point, initial boiling point, and boiling range</b>	> 296 °C (> 564,8 °F)
<b>Flash point</b>	196 °C (384,8 °F) Pensky-Martens Closed Cup
<b>Auto-ignition temperature</b>	260 °C (500 °F) estimated
<b>Flammability (solid, gas)</b>	Not available.
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Oxidising properties</b>	Not applicable.
<b>Explosive properties</b>	Not applicable.
<b>Explosive limit</b>	Not applicable.
<b>Vapour pressure</b>	0 hPa estimated
<b>Density</b>	890 kg/m <sup>3</sup>
<b>Vapour density</b>	Not applicable.
<b>Evaporation rate</b>	Not applicable.
<b>Relative density</b>	Not available.
<b>Solubility (water)</b>	Negligible
<b>Solubility (other)</b>	Oil

### Information on basic physical and chemical properties

<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Decomposition temperature</b>	Not available.

<b>Bulk density</b>	Not applicable.
<b>Pour point</b>	Not applicable.
<b>Viscosity</b>	160,7 cSt ASTM D445
<b>Viscosity temperature</b>	40 °C (104 °F)
<b>VOC (Weight %)</b>	0,84 % estimated
<b>Percent volatile</b>	0,08 % estimated
<b>Other data</b>	
<b>Flammability class</b>	Combustible IIIB estimated
<b>Specific gravity</b>	0,89
<b>Other information</b>	No relevant additional information available.

## Section 10: Stability and reactivity

<b>Reactivity</b>	None known. Strong oxidizing agents.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	Not available.
<b>Conditions to avoid</b>	Avoid temperatures exceeding the flash point.
<b>Incompatible materials</b>	None known.
<b>Hazardous decomposition products</b>	Nitrogen oxides (NOx). At thermal decomposition temperatures, carbon monoxide and carbon dioxide.

## Section 11: Toxicological information

<b>General information</b>	Not available.
<b>Information on likely routes of exposure</b>	
<b>Ingestion</b>	Not available.
<b>Inhalation</b>	Not available.
<b>Skin contact</b>	Not available.
<b>Eye contact</b>	Not available.
<b>Symptoms</b>	Not available.

### Information on toxicological effects

<b>Acute toxicity</b>	Not available.
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<b>Product</b>	<b>Test results</b>
V-Twin Semi-Synthetic Engine Oil 20W-50 (Mixture)	Acute Oral LD50 Rat: 2364,0662 g/kg estimated
<b>Components</b>	<b>Test results</b>
Antimony, Tris(dipentylcarbamodithioato) (15890-25-2)	Acute Dermal LD50 Rabbit: > 16000 mg/kg Acute Oral LD50 Rat: > 16000 mg/kg

\* Estimates for product may be based on additional component data not shown.

<b>Skin corrosion/irritation</b>	Not available.
<b>Serious eye damage/eye irritation</b>	Not available.
<b>Respiratory sensitisation</b>	Not available.
<b>Skin sensitisation</b>	Not available.
<b>Germ cell mutagenicity</b>	Not available.
<b>Carcinogenicity</b>	Not available.

### IARC Monographs. Overall Evaluation of Carcinogenicity

MINERAL OILS, HIGHLY-REFINED (CAS 8042-47-5)      3 Not classifiable as to carcinogenicity to humans.

<b>Reproductive toxicity</b>	Not available.
<b>Specific target organ toxicity - single exposure</b>	Not available.
<b>Specific target organ toxicity - repeated exposure</b>	Not available.
<b>Aspiration hazard</b>	Not available.
<b>Mixture versus substance information</b>	Not available.

**Other information** Not available.

## Section 12: Ecological information

### Toxicity

Product	Test results
V-Twin Semi-Synthetic Engine Oil 20W-50 (Mixture)	EC50 Daphnia: 1158,39 mg/l 48 hours estimated LC50 Fish: 4102,84 mg/l 96 hours estimated

\* Estimates for product may be based on additional component data not shown.

<b>Persistence and degradability</b>	No data is available on the degradability of this product.
<b>Bioaccumulative potential</b>	Not available.
<b>Mobility</b>	Not available.
<b>Environmental fate - Partition coefficient</b>	Not available.
<b>Mobility in soil</b>	Not available.
<b>Results of PBT and vPvB assessment</b>	Not available.
<b>Other adverse effects</b>	Not available.

## Section 13: Disposal considerations

### Waste treatment methods

<b>Residual waste</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.
<b>EU waste code</b>	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Disposal methods/information</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

## Section 14: Transport information

### ADR

Not regulated as dangerous goods.

### RID

Not regulated as dangerous goods.

### ADN

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** No information available.

## Section 15: Regulatory information

### Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU regulations

**Other regulations** The product is classified and labelled in accordance with EC directives or respective national laws  
This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

**National regulations** Not available.

**Chemical safety assessment** No Chemical Safety Assessment has been carried out.

## Section 16: Other information

<b>List of abbreviations</b>	Not available.
<b>References</b>	Not available.
<b>Information on evaluation method leading to the classification of mixture</b>	Not available.
<b>Full text of any statements or R-phrases and H-phrases under Sections 2 to 15</b>	R20/22 Harmful by inhalation and if swallowed. R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. H302 - Harmful if swallowed. H332 - Harmful if inhaled. H411 - Toxic to aquatic life with long lasting effects.

<b>Revision information</b>	Section 2: Hazards identification: Response Section 2: Hazards identification: Prevention Section 2: Hazards identification: Storage Section 2: Hazards identification: GHS Hazard Statements Section 2: Hazards identification: GHS Symbols Section 4: First aid measures: Inhalation Section 6: Accidental release measures: For non-emergency personnel Section 7: Handling and storage: Precautions for safe handling Section 8: Exposure controls/personal protection: Respiratory protection Section 9: Physical and chemical properties: Appearance Section 9: Physical and chemical properties: Colour Section 9: Physical and chemical properties: Odour Section 11: Toxicological information: Inhalation
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<b>Training information</b>	Not available.
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<b>Disclaimer</b>	Bel-Ray Company cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use.
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<b>Issue date</b>	11-January-2012
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<b>Revision date</b>	11-January-2012
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<b>Print date</b>	11-January-2012
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### Inventory status

<b>Country(s) or region</b>	<b>Inventory name</b>	<b>On inventory (yes/no) *</b>
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)