SAFETY DATA SHEET



1. Identification

Product identifier	V-Twin Semi-Synthetic Engine Oil 20W-50
Product Code	96910
SDS number	7137
Other means of identification	Not available.
Recommended use	Engine Oil
Recommended restrictions	None known.

2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Not classified.	
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 2
	Hazardous to the aquatic environment, long-term hazard	Category 3
OSHA defined hazards	Not classified.	
Label elements		
Hazard symbol	None.	
Signal word	None.	
Hazard statement	Harmful to aquatic life.	
Precautionary statement		
Prevention	Avoid release to the environment.	
Response	Wash hands after handling.	
Storage	Store away from incompatible materials.	
Disposal	Dispose of contents/container to .	
Hazard(s) not otherwise classified (HNOC)	None known.	
Supplemental information	None.	

3. Composition/information on ingredients

Mixtures			
Chemical name	Common name and synonyms	CAS number	%
Distillates (petroleum), Solvent-refined Heavy Paraffinic		64741-88-4	0 - < 90
White Mineral Oil (petroleum)		8042-47-5	0 - < 90
Distillates (petroleum), Hydrotreate Heavy Paraffinic	ed	64742-54-7	20 - < 30

Chemical name	Common name and synonyms	CAS number	%
Residual Oils (petroleum), Solvent-refined		64742-01-4	20 - < 30
Lubricating Oils (petroleum), C20-50, Hydrotreated Neutral Oil-based		72623-87-1	10 - < 20

Other components below reportable levels

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.	
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.	
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.	
Ingestion	Rinse mouth. Do not induce vomiting. Get medical attention if symptoms occur. Never give liquid to an unconscious person.	
Most important symptoms/effects, acute and delayed	Irritation of eyes and mucous membranes. Skin irritation.	
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically.	

5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Wear suitable protective equipment. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	This product is miscible in water.
containinent and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Use water spray to reduce vapors or divert vapor cloud drift. 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. Prevent product from entering drains. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
Environmental precautions	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.
7. Handling and storage	
Precautions for safe handling	Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store in original tightly closed container. Keep out of the reach of children. Store away from incompatible materials (see Section 10 of the SDS).

10 - < 20

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Tor Air Contaminants (29 CFR 1910) Type	Value	Form
Distillates (petroleum), Hydrotreated Heavy Paraffinic (CAS 64742-54-7)	PEL	5 mg/m3	Mist.
Distillates (petroleum), Solvent-refined Heavy	PEL	5 mg/m3	Mist.
Paraffinic (CAS 64741-88-4)		2000 mg/m3	
Residual Oils (petroleum),	PEL	500 ppm 5 mg/m3	Mist.
Solvent-refined (CAS 64742-01-4)	FEL	5 mg/ms	WIST.
White Mineral Oil (petroleum) (CAS 8042-47-5)	PEL	5 mg/m3	Mist.
US. ACGIH Threshold Limi	t Values		
Components	Туре	Value	Form
Lubricating Oils (petroleum), C20-50, Hydrotreated Neutral Oil-based (CAS 72623-87-1)	TWA	5 mg/m3	Inhalable fraction.
White Mineral Oil (petroleum) (CAS 8042-47-5)	TWA	5 mg/m3	Inhalable fraction.
US. NIOSH: Pocket Guide Components	to Chemical Hazards Type	Value	Form
Distillates (petroleum), Hydrotreated Heavy Paraffinic (CAS 64742-54-7)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Distillates (petroleum), Solvent-refined Heavy Paraffinic (CAS 64741-88-4)	Ceiling	1800 mg/m3	
· · · · ·	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Residual Oils (petroleum), Solvent-refined (CAS 64742-01-4)	STEL	10 mg/m3	Mist.
White Mineral Oil (petroleum) (CAS 8042-47-5)	TWA STEL	5 mg/m3 10 mg/m3	Mist. Mist.
0042-47-5)	TWA	5 mg/m3	Mist.
logical limit values	No biological exposure limits noted fo	0	
propriate engineering atrols	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.		
lividual protection measure Eye/face protection	s, such as personal protective equi Wear safety glasses with side shields		
Skin protection Hand protection	Wear appropriate chemical resistant g	loves.	
Other	Wear suitable protective clothing.		
Respiratory protection	In case of insufficient ventilation, wea	ir suitable respiratory equipme	nt.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.		

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

7. Physical and chemical	pi opei ties
Appearance	Oily. Liquid.
Physical state	Liquid.
Form	Liquid.
Color	Amber.
Odor	Petroleum
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	> 564.8 °F (> 296 °C)
Flash point	424.4 °F (218.0 °C) Pensky-Martens Closed Cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or e	xplosive limits
Flammability limit - lower (%)	1 % estimated
Flammability limit - upper (%)	50 % estimated
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	0.000002 hPa estimated
Density	888.00 kg/m ³
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Negligible
Solubility (other)	Oil
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	500 °F (260 °C) estimated
Decomposition temperature	Not available.
Viscosity	177.3 cSt ASTM D445
Viscosity temperature	104 °F (40 °C)
Other information	
Flammability class	Combustible IIIB estimated
Percent volatile	0.03 % estimated
Specific gravity	0.89
VOC	< 1 %

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.

11. Toxicological information

Information on likely routes of exposure

Inhalation	No adverse effects due to inhalation are expected.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Irritation of eyes and mucous membranes. Skin irritation.

Information on toxicological effects

Acute toxicity Respiratory tract irritation.

Acute toxicity	Respirator	Respiratory tract initiation.		
Product	Species	5	Test Results	
/-Twin Semi-Synthetic Engine Oil	20W-50			
<u>Acute</u>				
Dermal				
LD50	Rabbit		2958 mg/kg estimated	
Inhalation				
LC50	Rat		1545 mg/l, 4 hours estimated	
Oral				
LD50	Rat		2963 mg/kg estimated	
* Estimates for product may	be based on	additional compone	nt data not shown.	
kin corrosion/irritation	Based on	available data, the o	classification criteria are not met.	
Serious eye damage/eye rritation	Based on	Based on available data, the classification criteria are not met.		
Respiratory or skin sensitizat	ion			
Respiratory sensitization	Based on	Based on available data, the classification criteria are not met.		
Skin sensitization	Based on	Based on available data, the classification criteria are not met.		
Germ cell mutagenicity	Based on	Based on available data, the classification criteria are not met.		
Carcinogenicity	Based on	Based on available data, the classification criteria are not met.		
IARC Monographs. Overa	II Evaluatio	n of Carcinogenic	ity	
MINERAL OILS, HIGHLY MINERAL OILS, HIGHLY	•	•	3 Not classifiable as to carcinogenicity to humans.3 Not classifiable as to carcinogenicity to humans.	
Reproductive toxicity	Based on	Based on available data, the classification criteria are not met.		
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	Not an as	Not an aspiration hazard.		
12. Ecological informati	on			
cotoxicity	Harmful to	Harmful to aquatic life.		
Product		Species	Test Results	
V-Twin Semi-Synthetic Engin	e Oil 20W-50			
Aquatic				
Crustacea	EC50	Daphnia	29696.9688 mg/l, 48 hours estimated	

Product		Species	Test Results		
Fish	LC50	Fish	168.3641 mg/l, 96 hours estimated		
* Estimates for product may b	be based on additi	onal component data not shown.			
Persistence and degradability	No data is available on the degradability of this product.				
Bioaccumulative potential	No data available.				
Mobility in soil	No data available.				
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.				
13. Disposal considerations					
Disposal instructions	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.				

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste codeThe waste code should be assigned in discussion between the user, the producer and the waste
disposal company.Waste from residues /
unused productsDispose 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).

Contaminated packaging 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.

14. Transport information

DOT

Not regulated as dangerous goods.

ΙΑΤΑ

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not established. Annex II of MARPOL 73/78 and the IBC Code

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - No
-	Delayed Hazard - No
	Fire Hazard - No
	Pressure Hazard - No
	Reactivity Hazard - No

No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312

Hazardous chemical

SARA 313 (TRI reporting) Not regulated.

Other federal regulations

Safe Drinking Water Act Not regulated. (SDWA)

US state regulations

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Distillates (petroleum), Hydrotreated Heavy Paraffinic (CAS 64742-54-7) Distillates (petroleum), Solvent-refined Heavy Paraffinic (CAS 64741-88-4) Lubricating Oils (petroleum), C20-50, Hydrotreated Neutral Oil-based (CAS 72623-87-1) Residual Oils (petroleum), Solvent-refined (CAS 64742-01-4)

US. Massachusetts RTK - Substance List

Distillates (petroleum), Hydrotreated Heavy Paraffinic (CAS 64742-54-7) Distillates (petroleum), Solvent-refined Heavy Paraffinic (CAS 64741-88-4) Residual Oils (petroleum), Solvent-refined (CAS 64742-01-4) White Mineral Oil (petroleum) (CAS 8042-47-5)

US. New Jersey Worker and Community Right-to-Know Act

Distillates (petroleum), Hydrotreated Heavy Paraffinic (CAS 64742-54-7) Distillates (petroleum), Solvent-refined Heavy Paraffinic (CAS 64741-88-4) Residual Oils (petroleum), Solvent-refined (CAS 64742-01-4)

US. Pennsylvania Worker and Community Right-to-Know Law

Distillates (petroleum), Hydrotreated Heavy Paraffinic (CAS 64742-54-7) Residual Oils (petroleum), Solvent-refined (CAS 64742-01-4) White Mineral Oil (petroleum) (CAS 8042-47-5)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	No
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) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

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

Issue date	03-08-2016
Revision date	05-28-2016
Version #	2.0
Disclaimer	Bel-Ray Company, LLC 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. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.