		Page: 1
SAFETY DATA SHEET		Revision Date: 07/31/2016
		Print Date: 11/1/2016
		SDS Number: 000000135961
VR1™ SYNTHETIC RACING SAE 20W50 RACING OIL 679082		Version: 1.1

29 CFR 1910.1200 (OSHA HazCom 2012)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade name : VR1™ SYNTHETIC RACING SAE 20W50 RACING OIL

Recommended use of the chemical and restrictions on use

Details of the supplier of the safety data sheet Valvoline LLC 3499 Blazer Parkway Lexington, KY 40509 United States of America SDS@valvoline.com	Emergency telephone number 1-800-VALVOLINE Regulatory Information Number 1-800-TEAMVAL Product Information 1-800-TEAMVAL
---	--

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).

GHS Label element

This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).

Other hazards

None known.


SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Defatter

Hazardous components

Chemical Name	CAS-No.	Classification	Concentration (%)
Benzenesulfonic acid, C10-60-alkyl derivs., sodium salts	90194-32-4	Eye Irrit. 2A; H319	6.25

		Page: 2
SAFETY DATA SHEET		Revision Date: 07/31/2016
		Print Date: 11/1/2016
		SDS Number: 000000135961
VR1™ SYNTHETIC RACING SAE 20W50 RACING OIL 679082		Version: 1.1


ZINC DIALKYL DITHIOPHOSPHATE	68649-42-3	Skin Irrit. 2; H315 Aquatic Acute 2; H401 Aquatic Chronic 2; H411	1.08
---------------------------------	------------	--	------

SECTION 4. FIRST AID MEASURES

General advice	: No hazards which require special first aid measures.
If inhaled	: If breathed in, move person into fresh air. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	: Remove contaminated clothing. If irritation develops, get medical attention. If on skin, rinse well with water. Wash contaminated clothing before re-use.
In case of eye contact	: Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. If eye irritation persists, consult a specialist.
If swallowed	: Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
Most important symptoms and effects, both acute and delayed	: No symptoms known or expected.
Notes to physician	: No hazards which require special first aid measures.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray Foam Carbon dioxide (CO2)
------------------------------	--

		Page: 3
SAFETY DATA SHEET		Revision Date: 07/31/2016
		Print Date: 11/1/2016
		SDS Number: 000000135961
VR1™ SYNTHETIC RACING SAE 20W50 RACING OIL 679082		Version: 1.1

Dry chemical

Unsuitable extinguishing media : High volume water jet

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : carbon dioxide and carbon monoxide
Hydrocarbons
Carbon oxides

Specific extinguishing methods :

Product is compatible with standard fire-fighting agents.

Further information : Standard procedure for chemical fires.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

Environmental precautions : Prevent further leakage or spillage if safe to do so.


Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

Other information : Comply with all applicable federal, state, and local regulations.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Avoid contact with skin and eyes.
Smoking, eating and drinking should be prohibited in the application area.
For personal protection see section 8.
Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
Electrical installations / working materials must comply with

		Page: 4
SAFETY DATA SHEET		Revision Date: 07/31/2016
		Print Date: 11/1/2016
		SDS Number: 000000135961
VR1™ SYNTHETIC RACING SAE 20W50 RACING OIL 679082		Version: 1.1

the technological safety standards.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Engineering measures : Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Personal protective equipment

Hand protection

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Not required under normal conditions of use. Wear splash-proof safety goggles if material could be misted or splashed into eyes.

Skin and body protection : Wear as appropriate:
 impervious clothing
 Safety shoes
 Choose body protection according to the amount and concentration of the dangerous substance at the work place.
 Wear resistant gloves (consult your safety equipment supplier).

Hygiene measures : Wash hands before breaks and at the end of workday.
 When using do not eat or drink.
 When using do not smoke.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid


Odour : No data available

Odour Threshold : No data available

pH : No data available

Melting point/freezing point : No data available

Boiling point/boiling range : 626 °F / 330 °C
 (1,013.333333 hPa)
 Calculated Phase Transition Liquid/Gas

		Page: 5
SAFETY DATA SHEET		Revision Date: 07/31/2016
		Print Date: 11/1/2016
		SDS Number: 000000135961
VR1™ SYNTHETIC RACING SAE 20W50 RACING OIL 679082		Version: 1.1

Flash point : > 390 °F / > 199 °C
Method: Cleveland open cup

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : 1.3333333 hPa (20 °C)
Calculated Vapor Pressure

Relative vapour density : No data available

Relative density : 0.854

Density : 0.861 g/cm3

Solubility(ies)

Water solubility : No data available

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Thermal decomposition :
No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : 147 mm2/s (40 °C)

Oxidizing properties : No data available


SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : Product will not undergo hazardous polymerization.

Incompatible materials : None known.

		Page: 6
SAFETY DATA SHEET		Revision Date: 07/31/2016
		Print Date: 11/1/2016
		SDS Number: 000000135961
VR1™ SYNTHETIC RACING SAE 20W50 RACING OIL 679082		Version: 1.1

Strong oxidizing agents

Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation
Skin contact
Eye Contact
Ingestion

Acute toxicity

Not classified based on available information.

Components:

ZINC DIALKYL DITHIOPHOSPHATE:

Acute oral toxicity : LD 50 (Rat): > 2,000 - 5,000 mg/kg

Acute dermal toxicity : LD 50 (Rabbit): > 2,000 mg/kg
Assessment: Not classified as acutely toxic by dermal absorption under GHS.

Skin corrosion/irritation

Not classified based on available information.

Product:

Result: Repeated exposure may cause skin dryness or cracking.

Components:

Benzenesulfonic acid, C10-60-alkyl derivs., sodium salts:

Result: Not irritating to skin

ZINC DIALKYL DITHIOPHOSPHATE:

Result: Irritating to skin

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin.

Components:

Benzenesulfonic acid, C10-60-alkyl derivs., sodium salts:

Result: Irritating to eyes


ZINC DIALKYL DITHIOPHOSPHATE:

Result: Possibly irritating to eyes

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

	Page: 7
SAFETY DATA SHEET	Revision Date: 07/31/2016
	Print Date: 11/1/2016
	SDS Number: 000000135961
VR1™ SYNTHETIC RACING SAE 20W50 RACING OIL 679082	Version: 1.1

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks: No data available

Carcinogenicity:

IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

ZINC DIALKYL DITHIOPHOSPHATE:

Ecotoxicology Assessment

Acute aquatic toxicity : Toxic to aquatic life.

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

Persistence and degradability

No data available

Bioaccumulative potential


No data available

Mobility in soil

No data available

Other adverse effects

No data available

		Page: 8
SAFETY DATA SHEET		Revision Date: 07/31/2016
		Print Date: 11/1/2016
		SDS Number: 000000135961
VR1™ SYNTHETIC RACING SAE 20W50 RACING OIL 679082		Version: 1.1

Product:

Additional ecological information : No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

General advice : Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Dispose of in accordance with all applicable local, state and federal regulations.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International transport regulations

REGULATION

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.

U.S. DOT - ROAD

Not dangerous goods

CFR_RAIL_C

Not dangerous goods

U.S. DOT - INLAND WATERWAYS


Not dangerous goods

TDG_ROAD_C

Not dangerous goods

TDG_RAIL_C

Not dangerous goods

		Page: 9
SAFETY DATA SHEET		Revision Date: 07/31/2016
		Print Date: 11/1/2016
		SDS Number: 000000135961
VR1™ SYNTHETIC RACING SAE 20W50 RACING OIL		Version: 1.1
679082		

TDG_INWT_C

Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

Not dangerous goods

MX_DG

Not dangerous goods

***ORM = ORM-D, CBL = COMBUSTIBLE LIQUID**

Marine pollutant	no
------------------	----

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

SECTION 15. REGULATORY INFORMATION


SARA 311/312 Hazards : No SARA Hazards

SARA 313 Component(s)

ZINC DIALKYL DITHIOPHOSPHATE	68649-42-3	1.08 %
PHOSPHORODITHIOIC ACID, MIXED O,O- BIS(1,3-DIMETHYLBUTYL AND ISO-PR) ESTERS, ZINC SALTS	84605-29-8	0.35 %

Pennsylvania Right To Know

HYDROTREATED HEAVY PARAFFINIC BASE OIL	64742-54-7	50.00 - 70.00 %
---	------------	-----------------

	Page: 10
SAFETY DATA SHEET	Revision Date: 07/31/2016
	Print Date: 11/1/2016
	SDS Number: 000000135961
VR1™ SYNTHETIC RACING SAE 20W50 RACING OIL 679082	Version: 1.1

1-OCTENE, HOMOPOLYMER, HYDROGENATED	70693-43-5	20.00 - 30.00 %
--	------------	-----------------

Benzenesulfonic acid, C10-60-alkyl derivs., sodium salts	90194-32-4	5.00 - 10.00 %
---	------------	----------------

HEAVY PARAFFINIC DISTILLATE	64742-54-7	5.00 - 10.00 %
-----------------------------	------------	----------------

New Jersey Right To Know

HYDROTREATED HEAVY PARAFFINIC BASE OIL	64742-54-7	50.00 - 70.00 %
---	------------	-----------------

1-OCTENE, HOMOPOLYMER, HYDROGENATED	70693-43-5	20.00 - 30.00 %
--	------------	-----------------

Benzenesulfonic acid, C10-60-alkyl derivs., sodium salts	90194-32-4	5.00 - 10.00 %
---	------------	----------------

HEAVY PARAFFINIC DISTILLATE	64742-54-7	5.00 - 10.00 %
-----------------------------	------------	----------------

LUBRICANT ADDITIVE	Not Assigned	1.00 - 5.00 %
--------------------	--------------	---------------

ZINC DIALKYL DITHIOPHOSPHATE	68649-42-3	1.00 - 5.00 %
------------------------------	------------	---------------

California Prop 65

Proposition 65 warnings are not required for this product based on the results of a risk assessment.

The components of this product are reported in the following inventories:

TSCA : On TSCA Inventory

DSL : All components of this product are on the Canadian DSL.

AUSTR : On the inventory, or in compliance with the inventory

ENCS : Contact your sales representative for additional information.


KECL : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : Contact your sales representative for additional information.

Inventories

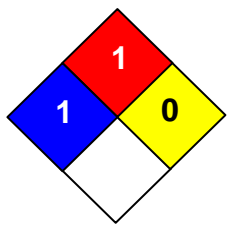
AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

	Page: 11
SAFETY DATA SHEET	Revision Date: 07/31/2016
	Print Date: 11/1/2016
	SDS Number: 000000135961
VR1™ SYNTHETIC RACING SAE 20W50 RACING OIL 679082	Version: 1.1

SECTION 16. OTHER INFORMATION

Further information

Revision Date: 07/31/2016

NFPA:	HMIS III:						
<p style="text-align: center;">Flammability</p> <div style="display: flex; align-items: center; justify-content: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); margin-right: 10px;">Health</div>  <div style="writing-mode: vertical-rl; margin-left: 10px;">Instability</div> </div> <p style="text-align: center;">Special hazard.</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: blue; color: white; text-align: center;">HEALTH</td><td style="text-align: center;">2</td></tr> <tr> <td style="background-color: red; color: white; text-align: center;">FLAMMABILITY</td><td style="text-align: center;">1</td></tr> <tr> <td style="background-color: yellow; text-align: center;">PHYSICAL HAZARD</td><td style="text-align: center;">0</td></tr> </table> <p style="font-size: small;">0 = not significant, 1 = Slight, 2 = Moderate, 3 = High 4 = Extreme, * = Chronic</p>	HEALTH	2	FLAMMABILITY	1	PHYSICAL HAZARD	0
HEALTH	2						
FLAMMABILITY	1						
PHYSICAL HAZARD	0						

NFPA Flammable and Combustible Liquids Classification

Combustible Liquid Class IIIB

Full text of H-Statements referred to under sections 2 and 3.

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H401	Toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

Sources of key data used to compile the Safety Data Sheet

Valvoline internal data including own and sponsored test reports

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Valvoline's Environmental Health and Safety Department (1-800-825-8654).


List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

ACGIH : American Conference of Industrial Hygienists

BEI : Biological Exposure Index

CAS : Chemical Abstracts Service (Division of the American Chemical Society).

CMR : Carcinogenic, Mutagenic or Toxic for Reproduction

		Page: 12
SAFETY DATA SHEET		Revision Date: 07/31/2016
		Print Date: 11/1/2016
		SDS Number: 000000135961
VR1™ SYNTHETIC RACING SAE 20W50 RACING OIL 679082		Version: 1.1

FG : Food grade

GHS : Globally Harmonized System of Classification and Labeling of Chemicals.

H-statement : Hazard Statement

IATA : International Air Transport Association.

IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO : International Civil Aviation Organization

ICAO-TI (ICAO) : Technical Instructions by the "International Civil Aviation Organization"

IMDG : International Maritime Code for Dangerous Goods

ISO : International Organization for Standardization

logPow : octanol-water partition coefficient

LCxx : Lethal Concentration, for xx percent of test population

LDxx : Lethal Dose, for xx percent of test population.

ICxx : Inhibitory Concentration for xx of a substance

Ecxx : Effective Concentration of xx

N.O.S.: Not Otherwise Specified

OECD : Organization for Economic Co-operation and Development

OEL : Occupational Exposure Limit

P-Statement : Precautionary Statement

PBT : Persistent , Bioaccumulative and Toxic

PPE : Personal Protective Equipment

STEL : Short-term exposure limit

STOT : Specific Target Organ Toxicity

TLV : Threshold Limit Value

TWA : Time-weighted average

vPvB : Very Persistent and Very Bioaccumulative

WEL : Workplace Exposure Level

CERCLA : Comprehensive Environmental Response, Compensation, and Liability Act

DOT : Department of Transportation

FIFRA : Federal Insecticide, Fungicide, and Rodenticide Act

HMIRC : Hazardous Materials Information Review Commission

HMIS : Hazardous Materials Identification System

NFPA : National Fire Protection Association

NIOSH : National Institute for Occupational Safety and Health

OSHA : Occupational Safety and Health Administration

PMRA : Health Canada Pest Management Regulatory Agency

RTK : Right to Know

WHMIS : Workplace Hazardous Materials Information System