

Print Date: 11/1/2016

SDS Number: R0171784 Version: 1.5

All-Fleet Plus[™] Heavy Duty Diesel SAE 15W-40 Engine Oil [™] Trademark, Valvoline or its subsidiaries, regisred in various countries

773634

29 CFR 1910.1200 (OSHA HazCom 2012)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

:

Product identifier

Trade name

All-Fleet Plus™ Heavy Duty Diesel SAE 15W-40 Engine Oil

[™] Trademark, Valvoline or its subsidiaries, regisred in various countries

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

Details of the supplier of the safety data	Emergency telephone number
sheet	1-800-VALVOLINE
Valvoline LLC	
3499 Blazer Parkway	Regulatory Information Number
Lexington, KY 40509	1-800-TEAMVAL
United States of America (USA)	
1-800-TEAMVAL	Product Information
	1-800-TEAMVAL

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Reproductive toxicity	: Category 2
GHS label elements Hazard pictograms	
Signal Word	: Warning
Hazard Statements	: Suspected of damaging fertility or the unborn child.
Precautionary Statements	 Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/ protective clothing/ eye protection/ face protection. Response: IF exposed or concerned: Get medical advice/ attention. Storage: Store locked up. Disposal:



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Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Defatter

Hazardous components

Chemical name	CAS-No.	Classification	Concentration (%)
Phosphorodithioic acid, mixed	113706-15-3	Skin Irrit. 2; H315	1.08
O,O-bis(sec-Bu and isooctyl) esters, zinc salts		Eye Dam. 1; H318	
Dodecylphenol, mixed isomers (branched)	74499-35-7	Skin Irrit. 2; H315	0.1449
		Eye Irrit. 2A; H319	
		Repr. 2; H361	

SECTION 4. FIRST AID MEASURES

General advice	Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.
If inhaled	If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.
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	Obtain medical attention. Do not give milk or alcoholic beverages.



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Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed	Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material thro the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea) irritation (nose, throat, airways) Suspected of damaging fertility or the unborn child.	ugh
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) 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 Nitrogen oxides (NOx) Sulphur oxides hydrogen sulfide mercaptans zinc oxide
Specific extinguishing methods	:	
		Product is compatible with standard fire-fighting agents.
Further information	:	Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES



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Personal precautions, protective equipment and emergency procedures	E P	lse personal protective equipment. nsure adequate ventilation. ersons not wearing protective equipment should be excluded om area of spill until clean-up has been completed.
Environmental precautions	P If	revent product from entering drains. revent further leakage or spillage if safe to do so. the product contaminates rivers and lakes or drains inform espective authorities.
Methods and materials for containment and cleaning up	a	oak up with inert absorbent material (e.g. sand, silica gel, cid binder, universal binder, sawdust). eep in suitable, closed containers for disposal.
Other information	: C	comply with all applicable federal, state, and local regulations.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling	 Do not breathe vapours/dust. Do not smoke. Container hazardous when empty. Avoid exposure - obtain special instructions before use. 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. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters					
Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis	
HYDROTREATED LIGHT PARAFFINIC DISTILLATE	64742-55-8	TWA	5 mg/m3 Mist	OSHA Z-1	
		TWA	5 mg/m3 Inhalable fraction	ACGIH	
		TWA	5 mg/m3	OSHA P0	

Components with workplace control parameters

Va	Ivol	ino		Page:
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I-Fleet Plus™ Heavy Duty Diese				SDS Number: R017178 Version: 1.
Trademark, Valvoline or its subs puntries 73634	sidiaries, regisre	d in various		
			Mist	
		TWA	5 mg/m3 Mist	NIOSH REL
		ST	10 mg/m3 Mist	NIOSH REL
		PEL	5 mg/m3 particulate	CAL PEL
Hazardous components wit		control paran	neters	
Components	CAS-No.			
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

Respiratory protection :	A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air- purifying respirators is limited. Use a positive pressure, air- supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.
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.



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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	liquid
Colour	:	amber
Odour	:	hydrocarbon-like
Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	> 199 °C Method: Cleveland open cup
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Upper explosion limit	:	6 %(V) Calculated Explosive Limit
Lower explosion limit	:	1 %(V) Calculated Explosive Limit
Vapour pressure	:	•
Relative vapour density	:	No data available
Relative density	:	0.89 (15.6 °C)
Density	:	0.880 g/cm3 (15.6 °C)
Solubility(ies) Water solubility	:	negligible
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



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Viscosity, kinematic : ca. 112 mm2/s (40 °C)

Oxidizing properties	: No data available
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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.
Conditions to avoid	: excessive heat
Incompatible materials	: Acids Strong oxidizing agents water
Hazardous decomposition products	carbon dioxide and carbon monoxide hydrogen sulfide Nitrogen oxides (NOx) Sulphur oxides zinc oxide mercaptans

SECTION 11. TOXICOLOGICAL INFORMATION

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

Acute toxicity	le information.
Not classified based on availab	O,O-bis(sec-Bu and isooctyl) esters, zinc salts:
<u>Components:</u>	: LD50 (Rat): 2,900 mg/kg
Phosphorodithioic acid, mixed	Remarks: Information given is based on data obtained from
Acute oral toxicity	similar substances.
Acute dermal toxicity	 LD50 (Rabbit): > 2,000 mg/kg Assessment: Not classified as acutely toxic by dermal absorption under GHS. Remarks: Information given is based on data obtained from similar substances.



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Skin corrosion/irritation

Not classified based on available information. <u>Components:</u> Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts: Result: Irritating to skin. Remarks: Information given is based on data obtained from similar substances.

Dodecylphenol, mixed isomers (branched): Result: Irritating to skin.

Serious eye damage/eye irritation

Not classified based on available information. Product: Remarks: Unlikely to cause eye irritation or injury.

Components:

Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts: Result: Corrosive Remarks: Information given is based on data obtained from similar substances.

Dodecylphenol, mixed isomers (branched): Result: Irritating to eyes.

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information. Respiratory sensitisation: Not classified based on available information. Components: Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts: Test Type: Buehler Test Species: Guinea pig Assessment: Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity

Not classified based on available information.

Components:

Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts:

- Genotoxicity in vitro : Remarks: In vitro tests showed mutagenic effects which were not observed with in vivo test.
- Genotoxicity in vivo : Test Type: chromosome aberration assay Test species: Mouse Cell type: peripheral blood cells Result: negative

Carcinogenicity Not classified based on available information. Reproductive toxicity Suspected of damaging fertility or the unborn child. Components: Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts: Effects on fertility : Species: Rat



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> Application Route: Oral Dose: 100 mg/kg bw/day Symptoms: No effects on reproduction parameters

Effects on foetal	: Species: Rat
development	Application Route: Oral
	Developmental Toxicity: No observed adverse effect level F1:
	100 mg/kg body weight

Dodecylphenol, mixed isomers (branched):

Reproductive toxicity -	:	Some evidence of adverse effects on sexual function and
Assessment		fertility, and/or on development, based on animal experiments.

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. <u>Product:</u> No aspiration toxicity classification

Further information

<u>Product:</u> 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 <u>Product:</u> Ecotoxicology Assessment Acute aquatic toxicity	: Acute aquatic toxicity Category 3; Harmful to aquatic life.
Chronic aquatic toxicity	: Chronic aquatic toxicity Category 3; Harmful to aquatic life with long lasting effects.
Components:	



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Phosphorodithioic acid, mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts:

	,O-bis(sec-Bu and isooctyl) esters, zinc salts: LC50 (Oncorhynchus mykiss (rainbow trout)): 4.5 mg/l Exposure time: 96 h Remarks: Information given is based on data obtained from similar substances.
Dodecylphenol, mixed isomers (I Ecotoxicology Assessment	
Acute aquatic toxicity	Very toxic to aquatic life.
Chronic aquatic toxicity	Very toxic to aquatic life with long lasting effects.
	O-bis(sec-Bu and isooctyl) esters, zinc salts: Result: Not readily biodegradable. Remarks: Information given is based on data obtained from similar substances.
No data available Bioaccumulative potential <u>Components:</u> Phosphorodithioic acid, mixed O Bioaccumulation	O-bis(sec-Bu and isooctyl) esters, zinc salts: Bioconcentration factor (BCF): 3 Remarks: Information given is based on data obtained from similar substances.
No data available Mobility in soil <u>Components:</u> No data available Other adverse effects No data available <u>Product:</u>	
	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Harmful to aquatic life with long lasting effects.
Componentes	

Components:

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
General advice	 The product should not be allowed to enter drains, water courses or the soil. 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.



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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	SUBSIDIARY	PACKING	MARINE
		CLASS	HAZARDS	GROUP	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

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

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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

EPCRA - Emergency Planning and Community Right-to-Know Act CERCLA Reportable Quantity This material does not contain any components with a CERCLA RQ. SARA 304 Extremely Hazardous Substances Reportable Quantity This material does not contain any components with a section 304 EHS RQ.			
SARA 311/312 Hazards	: Chronic Health Hazard		
SARA 313	Phosphorodithioic acid, 113706-15-3 1.08 % mixed O,O-bis(sec-Bu and isooctyl) esters, zinc salts		
California Prop 65 The components of this pro TSCA	 Proposition 65 warnings are not required for this product based on the results of a risk assessment. pduct are reported in the following inventories: On TSCA Inventory 		
DSL	: All components of this product are on the Canadian DSL		
AICS	: On the inventory, or in compliance with the inventory		
ENCS	: On the inventory, or in compliance with the inventory		
KECI	: On the inventory, or in compliance with the inventory		
PICCS	: On the inventory, or in compliance with the inventory		
IECSC	: Not in compliance with the inventory		

Inventories

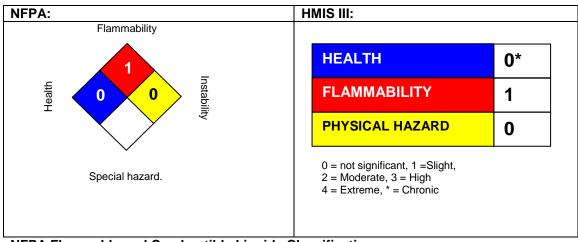
AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIOC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

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SECTION 16. OTHER INFORMATION

Further information

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NFPA Flammable and Combustible Liquids Classification

Combustible Liquid Class IIIB

Full text of H-Statements

H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H361	Suspected of damaging fertility or the unborn child

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-VALVOLINE).



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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

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

LČxx : 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