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Revision Date: 06/03/2011

Print Date: 2/9/2012 MSDS Number: R0272517

Version: 1.12

Valvoline DRIVE TRAIN SAE 50W TRANSMISSION FLUID VV329

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Ashland

Regulatory Information Number

1-800-325-3751

P.O. Box 2219

Telephone

614-790-3333

Columbus, OH 43216

Emergency telephone number

1-800-ASHLAND (1-800-274-

5263)

Product name

Valvoline™ DRIVE TRAIN SAE 50W TRANSMISSION FLUID

Product code

VV329

Product Use Description

No data

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance: liquid, amber

CAUTION! MAY CAUSE EYE IRRITATION. MAY CAUSE SKIN AND RESPIRATORY TRACT IRRITATION. PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE DERMATITIS AND BURNS. MAY BE HARMFUL IF SWALLOWED.

Potential Health Effects

Exposure routes

Inhalation, Skin absorption, Skin contact, Eye Contact, Ingestion

Eve contact

Can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes.

Skin contact

Can cause skin irritation. Symptoms may include redness and burning of skin, and other skin damage. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, and drying and cracking of skin, skin burns, and other skin damage.

Ingestion

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful.





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Inhalation

It is possible to breathe this material under certain conditions of handling and use (for example, during heating, spraying, or stirring). Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms are not expected at air concentrations below the recommended exposure limits, if applicable (see Section 8.).

Aggravated Medical Condition

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material:, Skin, lung (for example, asthma-like conditions)

Symptoms

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:, acne, stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways)

Target Organs

No data

Carcinogenicity

This material is not listed as a carcinogen by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), or the Occupational Safety and Health Administration (OSHA). Used motor oil has been shown to cause skin cancer in laboratory animals continually exposed by repeated applications. Avoid prolonged or repeated skin contact.

Reproductive hazard

There are no data available for assessing risk to the fetus from maternal exposure to this material.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components	CAS-No.	Concentration	
	ROLEUM),64742-65-0	>=40-	_,,
SOLVENTDEWAXED HEAVY PA)	<50%	
HEAVY PARAFFINIC DISTILLATE	64742-54-7	>=20-	
		<30%	



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HYDROTREATED LIGHT PARAFFINIC	
DISTILLATÉ	
ACTURED AT OUR	

64742-55-8 >=20-<30% >=1.5-<5%

MINERAL OIL
CALCIUM LONG-CHAIN ALKYLPHENATE
SULFIDE

>=1.5-<5%

ZINC DIALKYL DITHIOPHOSPHATE

68649-42-3

>=1-<1.5%

4. FIRST AID MEASURES

Eyes

If symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids apart; seek immediate medical attention.

Skin

Remove contaminated clothing. Flush exposed area with large amounts of water. If skin is damaged, seek immediate medical attention. If skin is not damaged and symptoms persist, seek medical attention. Launder clothing before reuse.

Ingestion

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

Inhalation

If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

Notes to physician

Hazards: Acute aspiration of large amounts of oil-laden material may produce a serious aspiration pneumonia. Patients who aspirate these oils should be followed for the development of longterm sequelae. Repeated aspiration of small quantities of mineral oil can produce chronic inflammation of the lungs (i.e. lipoid pneumonia) that may progress to pulmonary fibrosis. Symptoms are often subtle and radiological changes appear worse than clinical abnormalities. Occasionally, persistent cough, irritation of the upper respiratory tract, shortness of breath with exertion, fever, and



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bloody sputum occur. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary abnormalities.

Treatment: No information available.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Dry chemical, Carbon dioxide (CO2), Water spray

Hazardous combustion products carbon dioxide and carbon monoxide,

Hydrocarbons, sulfur oxides

Precautions for fire-fighting

Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA). DO NOT direct a solid stream of water or foam into hot, burning pools of liquid since this may cause frothing and increase fire intensity. Frothing can be violent and possibly endanger any firefighter standing too close to the burning liquid. Use water spray to cool fire exposed containers and structures until fire is out if it can be done with minimal risk. Avoid spreading burning material with water used for cooling purposes.

NFPA Flammable and Combustible Liquids Classification

Combustible Liquid Class IIIB

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

For personal protection see section 8. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

Environmental precautions

Prevent spreading over a wide area (e.g. by containment or oil barriers). Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

Methods for cleaning up

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

Other information



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Comply with all applicable federal, state, and local regulations.

7. HANDLING AND STORAGE

Handling

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed.

Storage

Store in a cool, dry, ventilated area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

DISTILLATES (PETROLE DEWAXED HEAVY PA	U 4), SOLVENT-	64742-65-0	
OSHA Z1	Permissible exposure limit	500 ppm	
OSHA Z1	Permissible exposure limit	2,000 mg/m3	
NIOSH	Recommended exposure limit (REL):	5 mg/m3	Mist.
NIOSH	Short term exposure limit	10 mg/m3	Mist.
OSHA Z1	Permissible exposure limit	5 mg/m3	Mist.
ACGIH	time weighted average	5 mg/m3	Inhalable fraction.
HYDROTREATED LIGHT P DISTILLATE	ARAFFINIC	64742-55-8	
NIOSH	Recommended exposure limit (REL):	5 mg/m3	Mist.
NIOSH	Short term exposure limit	10 mg/m3	Mist.
OSHA ZI	Permissible exposure limit	5 mg/m3	Mist.
ACGIH	time weighted average	5 mg/m3	Inhalable fraction.
MINERAL OIL			,
NIOSH	Recommended exposure limit (REL):	5 mg/m3	Mist.
NIOSH	Short term exposure limit	10 mg/m3	· Mist.
OSHA Z1	Permissible exposure limit	5 mg/m3	Mist.





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> ACGIH ACGIH

time weighted average Short term exposure limit 5 mg/m3 10 mg/m3 Mist. Mist.

ACGIH NIC

time weighted average

0.2 mg/m3

Inhalable fraction.

General advice

These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

Exposure controls

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.

Eye protection

Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

Skin and body protection

Wear normal work clothing including long pants, long-sleeved shirts and foot covering to prevent direct contact of the product with the skin. Launder clothing before reuse. If skin irritation develops, contact your facility health and safety professional or your local safety equipment supplier to determine the proper personal protective equipment for your use.

Wear resistant gloves (consult your safety equipment supplier).

Discard gloves that show tears, pinholes, or signs of wear.

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 airpurifying 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 airpurifying respirator may not provide adequate protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state

liquid

Form

no data available

ASHLAND. SAFETY DATA SHEET

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Colour amber

Odour no data available

Boiling point/boiling range no data available

Melting point/rangeno data availableSublimation pointno data availablepHno data available

Flash point > 390 °F / > 199 °C Cleveland open

cup

Ignition temperature no data available Evaporation rate no data available

Lower explosion limit/Upper explosion limit 1 %(V) / 6 %(V) Calculated Explosive

Limit

Particle size no data available

Vapour pressure 1.333 hPa @ 68 °F / 20 °C Calculated

Vapor Pressure

Relative vapour density no data available

Density 0.890 g/cm³ @ 77 °F / 25 °C

Bulk density

Water solubility

Solubility(ies)

No data

negligible
no data available

Partition coefficient: n-octanol/water no data available log Pow no data available Autoignition temperature no data available Viscosity, dynamic no data available viscosity, lynamic no data available viscosity, lynamic no data available viscosity, lynamic no data available

Viscosity, kinematic no data available
Solids in Solution no data available
Decomposition temperature no data available
Burning number no data available

Dust explosion constant no data available

Minimum ignition energy no data available

10. STABILITY AND REACTIVITY

Stability

Stable.





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Conditions to avoid

excessive heat

Incompatible products

Strong oxidizing agents

Hazardous decomposition products carbon dioxide and carbon monoxide, Hydrocarbons

Hazardous reactions

Product will not undergo hazardous polymerization.

Thermal decomposition

No data

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity

DISTILLATES (PETROLEUM), SOLVENTDEWAXED: LD 50 Rat: > 5,000 mg/kg

HEAVY PA

HEAVY PARAFFINIC DISTILLATE : LD 50 Rat: > 15 g/kg

HYDROTREATED LIGHT PARAFFINIC : no data available

DISTILLATE

MINERAL OIL : no data available

CALCIUM LONG-CHAIN ALKYLPHENATE

SULFIDE

ZINC DIALKYL DITHIOPHOSPHATE : LD 50 Rat: 2,000 - 5,000 mg/kg

: no data available

: no data available

Acute inhalation toxicity

DISTILLATES (PETROLEUM), SOLVENTDEWAXED: no data available

HEAVY PA

HEAVY PARAFFINIC DISTILLATE : no data available

HYDROTREATED LIGHT PARAFFINIC

DISTILLATE

MINERAL OIL : no data available



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CALCIUM LONG-CHAIN ALKYLPHENATE

: no data available

SULFIDE

ZINC DIALKYL DITHIOPHOSPHATE

no data available

Acute dermal toxicity

DISTILLATES (PETROLEUM), SOLVENTDEWAXED: LD 50

HEAVY PA

Rabbit:

> 5,000 mg/kg

HEAVY PARAFFINIC DISTILLATE : LD 50

Rabbit: > 5 g/kg

HYDROTREATED LIGHT PARAFFINIC : no data available

DISTILLATE

MINERAL OIL : no data available

CALCIUM LONG-CHAIN ALKYLPHENATE

SULFIDE

ZINC DIALKYL DITHIOPHOSPHATE : LD 50

Rabbit:

> 2,000 mg/kg

· no data available

12. ECOLOGICAL INFORMATION

Biodegradability

DISTILLATES (PETROLEUM), SOLVENTDEWAXED: no data available

HEAVÝ PA

HEAVY PARAFFINIC DISTILLATE : no data available

HYDROTREATED LIGHT PARAFFINIC

: no data available

DISTILLATE

MINERAL OIL : no data available

CALCIUM LONG-CHAIN ALKYLPHENATE

: no data available

SULFIDE

ZINC DIALKYL DITHIOPHOSPHATE : no data available

Bioaccumulation

DISTILLATES (PETROLEUM), SOLVENTDEWAXED: no data available

HEAVY PA

HEAVY PARAFFINIC DISTILLATE : no data available





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HYDROTREATED LIGHT PARAFFINIC

: no data available

DISTILLATE

: no data available

MINERAL OIL

CALCIUM LONG-CHAIN ALKYLPHENATE

SULFIDE

: no data available

ZINC DIALKYL DITHIOPHOSPHATE

: no data available

Ecotoxicity effects



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Toxicity to fish

DISTILLATES (PETROLEUM), SOLVENTDEWAXED: no data available

HEAVY PA

HEAVY PARAFFINIC DISTILLATE : no data available

HYDROTREATED LIGHT PARAFFINIC : no data available

DISTILLATE

MINERAL OIL : no data available

CALCIUM LONG-CHAIN ALKYLPHENATE : no data available

SULFIDE

ZINC DIALKYL DITHIOPHOSPHATE : no data available

Toxicity to daphnia and other aquatic invertebrates.

DISTILLATES (PETROLEUM), SOLVENTDEWAXED: no data available

HEAVY PA

HEAVY PARAFFINIC DISTILLATE : no data available

HYDROTREATED LIGHT PARAFFINIC : no data available

DISTILLATE

MINERAL OIL : no data available

CALCIUM LONG-CHAIN ALKYLPHENATE : no data available

SULFIDE

ZINC DIALKYL DITHIOPHOSPHATE : no data available

Toxicity to algae

DISTILLATES (PETROLEUM), SOLVENTDEWAXED: nó data available

HEAVY PA

HEAVY PARAFFINIC DISTILLATE : no data available

HYDROTREATED LIGHT PARAFFINIC : no data available

DISTILLATE

MINERAL OIL : no data available

CALCIUM LONG-CHAIN ALKYLPHENATE : no data available

SULFIDE

ZINC DIALKYL DITHIOPHOSPHATE : no data available

Toxicity to bacteria

DISTILLATES (PETROLEUM), SOLVENTDEWAXED: no data available

HEAVY PA





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HEAVY PARAFFINIC DISTILLATE : no data available

HYDROTREATED LIGHT PARAFFINIC

: no data available

: no data available

DISTILLATE

MINERAL OIL : no data available

CALCIUM LONG-CHAIN ALKYLPHENATE

SULFIDE

ZINC DIALKYL DITHIOPHOSPHATE : no data available

Biochemical Oxygen Demand (BOD)

DISTILLATES (PETROLEUM), SOLVENTDEWAXED: no data available

HEAVY PA

HEAVY PARAFFINIC DISTILLATE : no data available

HYDROTREATED LIGHT PARAFFINIC : no data available

DISTILLATE

MINERAL OIL : no data available

CALCIUM LONG-CHAIN ALKYLPHENATE : no data available

SULFIDE

ZINC DIALKYL DITHIOPHOSPHATE : no data available

Chemical Oxygen Demand (COD)

DISTILLATES (PETROLEUM), SOLVENTDEWAXED: no data available

HEAVY PA

HEAVY PARAFFINIC DISTILLATE : no data available

HYDROTREATED LIGHT PARAFFINIC : no data available

DISTILLATE

MINERAL OIL : no data available

CALCIUM LONG-CHAIN ALKYLPHENATE

: no data available

SULFIDE

ZINC DIALKYL DITHIOPHOSPHATE : no data available

Additional ecological information

DISTILLATES (PETROLEUM), SOLVENTDEWAXED: no data available

HEAVY PA

HEAVY PARAFFINIC DISTILLATE : no data available

HYDROTREATED LIGHT PARAFFINIC : no data available

DISTILLATE



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MINERAL OIL

no data available

CALCIUM LONG-CHAIN ALKYLPHENATE

no data available

SULFIDE

ZINC DIALKYL DITHIOPHOSPHATE

no data available

13. DISPOSAL CONSIDERATIONS

Waste disposal methods

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

14. TRANSPORT INFORMATION

REGULATION

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	こうない とうてき も	MARINE POLLUTANT
<u> </u>	<u> </u>				/LTD.QTY.

U.S. DOT - ROAD

Not dangerous goods

U.S. DOT - RAIL

Not dangerous goods

U.S. DOT - INLAND WATERWAYS

Not dangerous goods

TRANSPORT CANADA - ROAD

Not dangerous goods

TRANSPORT CANADA - RAIL

Not dangerous goods





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TRANSPORT CANADA - INLAND WATERWAYS

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

MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND

WASTES

Not dangerous goods

*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

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.

15. REGULATORY INFORMATION

California Prop. 65

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

SARA Hazard Classification

No SARA Hazards

SARA 313 Component(s)

ZINC DIALKYL DITHIOPHOSPHATE

1.30 %

New Jersey RTK Label Information

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PA

64742-65-0



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HEAVY PARAFFINIC DIST	entro english				64742-54-7
The Control of the Co	ARAFFINIC DISTILLA	TE.	2	2	64742-55-8
MINERAL OIL	Mary Barrell	4			
LUBRICANT ADDITIVE		· , *	``.		ż
ZINC DIALKYL DITHIOPHO	SPHATE		*	\$ 3 17	68649-42-3
Pennsylvania RTK Labe	* * *				
DISTILLATES (PETROLEUM	n, solvent-dewaxe	D HEAVY	PA,	;	- 64742-65-0

HEAVY PARAFFINIC DISTILLATE HYDROTREATED LIGHT PARAFFINIC DISTILLATE MINERAL OIL

LUBRICANT ADDITIVE

Notification status

US. Toxic Substances Control Act	y (positive listing)
Canada. Canadian Environmental Protection Act (CEPA).	y (positive listing)
Domestic Substances List (DSL). (Can. Gaz. Part II, Vol. 133)	-
Australia. Industrial Chemical (Notification and Assessment)	y (positive listing)
Act	
New Zealand. Inventory of Chemicals (NZIoC), as published	n (Negative listing)
by ERMA New Zealand	
Japan. Kashin-Hou Law List	y (positive listing)
Korea. Toxic Chemical Control Law (TCCL) List	y (positive listing)
Philippines. The Toxic Substances and Hazardous and Nuclear	ý (positive listing)
Waste Control Act	· · · · · · · · · · · · · · · · · · ·
China. Inventory of Existing Chemical Substances	y (positive listing)



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Health Flammability Physical hazards Instability 1 0 0 0 0	V V 323	1	0
Flammability Physical hazards 0 0 0	Health	1	1
Physical hazards 0		1	
		0	
			0
Specific Hazard	Specific Hazard		<u> </u>

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 MSDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).