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29 CFR 1910.1200 (OSHA HazCom 2012)

### **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

**Product identifier** 

: Valvoline™ HEAVY DUTY SYNTHETIC SAE 50 MANUAL Trade name

TRANSMISSION FLUID

# Recommended use of the chemical and restrictions on use

Use of the Substance/Mixture : TRANSMISSION FLUID

Details of the supplier of the safety data	Emergency telephone number
sheet	1-800-ASHLAND (1-800-274-526

Ashland P.O. Box 2219

Columbus, OH 43216 United States of America

EHS Customer Requests@ashland.com

1-800-ASHLAND (1-800-274-5263)

**Regulatory Information Number** 

1-800-325-3751

**Product Information** 

614-790-3333

# **SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification** 

Skin sensitization : Category 1

Reproductive toxicity : Category 2

**GHS Label element** 

Hazard pictograms





Signal Word : Warning

**Hazard Statements** May cause an allergic skin reaction.

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.

Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

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Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves/ protective clothing/ eye protection/ face protection.

# Response:

IF ON SKIN: Wash with plenty of soap and water.
IF exposed or concerned: Get medical advice/ attention.
If skin irritation or rash occurs: Get medical advice/ attention.
Wash contaminated clothing before reuse.

### Storage:

Store locked up.

### Disposal:

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 (%)
C11-C14 BRANCHED ALKYL AMINE PHOSPHATE	80939-62-4	Skin Irrit. 2; H315	4.99
		Eye Irrit. 2A; H319	
N-PHENYL-1-NAPHTHYLAMINE	90-30-2		0.99
		Acute Tox. 4; H302	
		Skin Sens. 1; H317	
		STOT RE 2; H373	
p-DODECYLPHENOL	27193-86-8	Skin Irrit. 2; H315	0.49
		Eye Irrit. 2A; H319	
		Repr. 2; H361	

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### **SECTION 4. FIRST AID MEASURES**

General advice : Move out of dangerous area.

Call a POISON CENTRE or doctor/physician if exposed or

you feel unwell.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

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 : Obtain medical attention.

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

May cause an allergic skin reaction.

Suspected of damaging fertility or the unborn child.

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)

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.

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Hazardous combustion

products

: carbon dioxide and carbon monoxide oxides of sulfur, nitrogen and phosphorus

nitrogen oxides (NOx) Oxides of phosphorus

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.

for firefighters

Special protective equipment : 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.

Ensure adequate ventilation.

Persons not wearing protective equipment should be excluded

from area of spill until clean-up has been completed.

Environmental precautions

: Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

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 : Do not breathe vapours/dust.

Do not smoke.

Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used.

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.

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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.

Electrical installations / working materials must comply with

the technological safety standards.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

·

: 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

**Engineering measures** 

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, airsupplied 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. Discard gloves that show tears, pinholes, or signs of wear. Wear resistant gloves (consult your safety equipment

supplier).

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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

Colour : amber

Odour : mild

Odour Threshold : No data available

pH : No data available

Melting point/freezing point : No data available

Boiling point/boiling range : No data available

Flash point :  $> 376 \, ^{\circ}\text{F} \, / > 191 \, ^{\circ}\text{C}$ 

Method: Closed 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 : No data available

Relative vapour density : No data available

Relative density : No data available

Density : 0.8610 g/cm3 (20 °C)

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

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Viscosity, kinematic : No data available

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.

Conditions to avoid : None known.

Incompatible materials : Strong acids

strong bases

Strong oxidizing agents

Hazardous decomposition

products No hazardous decomposition products are known.

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

Information on likely routes of : Inhalation

exposure

Inhalation Skin contact

Eye Contact Ingestion

Acute toxicity

Not classified based on available information.

**Product:** 

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

Components:

C11-C14 BRANCHED ALKYL AMINE PHOSPHATE:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Method: OECD Test Guideline 401

GLP: yes

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

Method: OECD Test Guideline 402

Assessment: No adverse effect has been observed in acute

dermal toxicity tests.

N-PHENYL-1-NAPHTHYLAMINE:

Acute oral toxicity : LD 50 (Rat, Male): ca. 1,625 mg/kg

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Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

p-DODECYLPHENOL:

Acute oral toxicity : LD50 (Rat): 2,100 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

#### Skin corrosion/irritation

Not classified based on available information.

**Product:** 

Remarks: May cause skin irritation in susceptible persons.

Result: Repeated exposure may cause skin dryness or cracking.

#### **Components:**

C11-C14 BRANCHED ALKYL AMINE PHOSPHATE:

Species: Rabbit

Result: Irritating to skin

N-PHENYL-1-NAPHTHYLAMINE:

Species: Rabbit

Method: OECD Test Guideline 404 Result: Mildly irritating to skin

p-DODECYLPHENOL: 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:**

C11-C14 BRANCHED ALKYL AMINE PHOSPHATE:

Species: Rabbit

Result: Irritating to eyes

N-PHENYL-1-NAPHTHYLAMINE: Result: Mildly irritating to eyes Method: OECD Test Guideline 405

p-DODECYLPHENOL: Result: Irritating to eyes

### Respiratory or skin sensitisation

Skin sensitisation: May cause an allergic skin reaction.

Respiratory sensitisation: Not classified based on available information.

Components:

C11-C14 BRANCHED ALKYL AMINE PHOSPHATE:

Test Type: Maximisation Test (GPMT)

Species: Guinea pig

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Method: OECD Test Guideline 406 Result: Does not cause skin sensitisation.

N-PHENYL-1-NAPHTHYLAMINE: Test Type: Maximisation Test (GPMT)

Species: Guinea pig

Assessment: May cause sensitisation by skin contact.

Method: OECD Test Guideline 406

#### Germ cell mutagenicity

Not classified based on available information.

### Components:

C11-C14 BRANCHED ALKYL AMINE PHOSPHATE:
Genotoxicity in vitro : Test Type: Ames test

Test species: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

: Test species: Chinese hamster lung cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

# Carcinogenicity

Not classified based on available information.

### Reproductive toxicity

Suspected of damaging fertility or the unborn child.

## **Components:**

p-DODECYLPHENOL:

Reproductive toxicity - : Suspected of damaging fertility., Some evidence of adverse

Assessment effects on sexual function and fertility, based on animal

experiments.

# STOT - single exposure

Not classified based on available information.

# STOT - repeated exposure

Not classified based on available information.

### **Components:**

N-PHENYL-1-NAPHTHYLAMINE:

Exposure routes: Ingestion Target Organs: Blood

Assessment: The substance or mixture is classified as specific target organ toxicant, repeated

exposure, category 2.

### **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

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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**

**Product:** 

Toxicity to fish : LC 50 (Fish): 10 - 100 mg/l

# **Components:**

C11-C14 BRANCHED ALKYL AMINE PHOSPHATE:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 5.5 mg/l

Exposure time: 96 h Test Type: static test

Method: OECD Test Guideline 203

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): > 1 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

Remarks: No toxicity at the limit of solubility

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): > 10

mg/l

Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201

GLP: yes

NOEC (Pseudokirchneriella subcapitata (green algae)): 3.2

mg/l

Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201

GLP: yes

### N-PHENYL-1-NAPHTHYLAMINE:

Toxicity to fish : LC 50 (Oncorhynchus mykiss (rainbow trout)): 0.44 - 0.74 mg/l

Exposure time: 96 h

Test Type: flow-through test

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Toxicity to daphnia and other

aquatic invertebrates

: EC 50 (Water flea (Daphnia magna)): 0.3 - 0.68 mg/l

Exposure time: 48 h Test Type: static test

p-DODECYLPHENOL:

Toxicity to fish : LL50 (Pimephales promelas (fathead minnow)): 40 mg/l

> Exposure time: 96 h Test substance: WAF

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Water flea (Daphnia magna)): 0.037 mg/l

Exposure time: 48 h

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 0.36 mg/l

End point: Growth inhibition

Exposure time: 72 h

M-Factor (Acute aquatic

toxicity)

: 10

Toxicity to daphnia and other

aquatic invertebrates

(Chronic toxicity)

: NOEC (Water flea (Daphnia magna)): 0.002 mg/l

Method: OECD Test Guideline 211

M-Factor (Chronic aquatic

toxicity)

: 10

### Persistence and degradability

# **Components:**

C11-C14 BRANCHED ALKYL AMINE PHOSPHATE:

Biodegradability : Result: Not readily biodegradable.

> Biodegradation: 13 % Exposure time: 28 d

Method: OECD Test Guideline 301B

N-PHENYL-1-NAPHTHYLAMINE:

Biodegradability : Result: Not readily biodegradable.

> Biodegradation: 0 % Exposure time: 28 d

Method: OECD Test Guideline 301C

p-DODECYLPHENOL:

Biodegradability : Result: Not readily biodegradable.

#### Bioaccumulative potential

# Components:

C11-C14 BRANCHED ALKYL AMINE PHOSPHATE: Partition coefficient: n-: log Pow: 1.5 - 2.3

octanol/water Method: OECD Test Guideline 117

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GLP: yes

N-PHENYL-1-NAPHTHYLAMINE:

Partition coefficient: n-

: log Pow: 4.20

octanol/water

p-DODECYLPHENOL:

Partition coefficient: n-

: log Pow: 6.58

octanol/water

# Mobility in soil

### Components:

No data available

#### Other adverse effects

No data available

### **Product:**

Additional ecological

information

: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Toxic to aquatic life with

long lasting effects.

#### 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.

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**

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

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U.S. DOT - ROAD	
Not dangerous goods	
FR_RAIL_C	
Not dangerous goods	
J.S. DOT - INLAND WATERWAYS  Not dangerous goods	
Not dangerous goods	
DC BOAD C	
DG_ROAD_C  Not dangerous goods	
DG_RAIL_C	
Not dangerous goods	
DG_INWT_C	
Not dangerous goods	
NTERNATIONAL MARITIME DANGEROUS GOODS	MADINE
Not dangerous goods	MARINE POLLUTANT:(
	PARA-
	DODECYLPH
	ENOL, N-
	PHENYL-1- NAPHTHYLAN
	INE)
NTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO	
Not dangerous goods	
NTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGE	:R
Not dangerous goods	
IX_DG  Not dangerous goods	
riot dangerous goods	
ORM = ORM-D, CBL = COMBUSTIBLE LIQUID	
Marine pollutant yes	

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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 : Acute Health Hazard

Chronic Health Hazard

**SARA 313** 

Component(s)SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

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 the inventory, or in compliance with the inventory

PICCS : Not in compliance with the inventory

IECSC : Not in compliance with the inventory

NZIOC : Not in compliance with the inventory

KECL : Not in compliance with the inventory

ENCS : Not in compliance with the inventory

AUSTR : Not in compliance with the inventory

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

#### **Inventories**

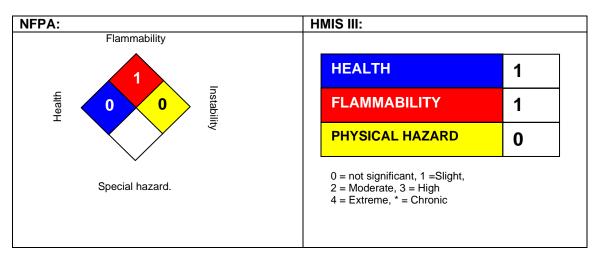
AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

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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 referred to under sections 2 and 3.

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure
	if swallowed.

Sources of key data used to compile the Safety Data Sheet Ashland 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 Ashland's Environmental Health and Safety Department (1-800-325-3751).

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

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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

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