

ASHLAND		Page: 1
SAFETY DATA SHEET		Revision Date: 11/02/2015
		Print Date: 11/6/2015
		MSDS Number: R0177840
Valvoline™ POWER STEERING FLUID ™ Trademark, Ashland or its subsidiaries, registered in various countries 3103		Version: 1.15

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

Ashland P.O. Box 2219 Columbus, OH 43216	Regulatory Information Number Telephone Emergency telephone number	1-800-325-3751 614-790-3333 1-800-ASHLAND (1-800-274-5263)
Product name	Valvoline™ POWER STEERING FLUID ™ Trademark, Ashland or its subsidiaries, registered in various countries	
Product code	3103	

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance: liquid, amber

CAUTION! PROLONGED OR REPEATED CONTACT MAY DRY THE SKIN AND CAUSE IRRITATION AND BURNS.

Potential Health Effects

Exposure routes

Inhalation, Skin contact, Eye Contact, Ingestion

Eye contact

May cause mild eye irritation. Symptoms include stinging, tearing, and redness.

Skin contact

May cause slight skin irritation. 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.

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

No data.

Symptoms

ASHLAND [®]		Page: 2
SAFETY DATA SHEET		Revision Date: 11/02/2015
		Print Date: 11/6/2015
		MSDS Number: R0177840
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No symptoms known or expected.

Target Organs

No data.

Carcinogenicity

Used motor oil has been shown to cause skin cancer in laboratory animals continually exposed by repeated applications. Avoid prolonged or repeated skin contact. 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).

Reproductive hazard

Based on the available information, risk to the fetus from maternal exposure to this material cannot be assessed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

WHMIS hazardous composition: No ingredients are hazardous according to the CPR criteria.

4. FIRST AID MEASURES

General Information

No hazards which require special first aid measures.

Eyes

Remove contact lenses. Protect unharmed eye.

Skin

First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.

Ingestion

Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

Inhalation

If breathed in, move person into fresh air. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

Notes to physician

Hazards: No information available.

Treatment: No hazards which require special first aid measures.

ASHLAND [®]		Page: 3
SAFETY DATA SHEET		Revision Date: 11/02/2015
		Print Date: 11/6/2015
		MSDS Number: R0177840
Valvoline™ POWER STEERING FLUID ™ Trademark, Ashland or its subsidiaries, registered in various countries 3103		Version: 1.15

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

Hazardous combustion products

carbon dioxide and carbon monoxide, Hydrocarbons

Precautions for fire-fighting

If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than air and may travel along the ground and be ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release. Do not allow run-off from fire fighting to enter drains or water courses. In the event of fire, wear self-contained breathing apparatus. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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 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 for 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.

7. HANDLING AND STORAGE

Handling

Smoking, eating and drinking should be prohibited in the application area. For personal protection see section 8. Normal measures for preventive fire protection.

Storage

ASHLAND		Page: 4
SAFETY DATA SHEET		Revision Date: 11/02/2015
		Print Date: 11/6/2015
		MSDS Number: R0177840
Valvoline™ POWER STEERING FLUID ™ Trademark, Ashland or its subsidiaries, registered in various countries 3103		Version: 1.15

Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards. No decomposition if stored and applied as directed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Contains no substances with occupational exposure limit values.

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.

General industrial hygiene practice.

Exposure controls

General room ventilation should be adequate for normal conditions of use. However, if unusual operating conditions exist, 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

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:

Safety shoes

Wear resistant gloves (consult your safety equipment supplier).

Respiratory protection

No personal respiratory protective equipment normally required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	liquid
Colour	amber
Odour	No data available
Boiling point/boiling range	424.99 °F / 218.33 °C @ 1,013.33 hPa Calculated Phase Transition Liquid/Gas
pH	No data available
Flash point	347.00 °F / 175.00 °C Open Cup
Evaporation rate	(>)1 Ethyl Ether

ASHLAND		Page: 5
SAFETY DATA SHEET		Revision Date: 11/02/2015
		Print Date: 11/6/2015
		MSDS Number: R0177840
Valvoline™ POWER STEERING FLUID ™ Trademark, Ashland or its subsidiaries, registered in various countries 3103		Version: 1.15

Vapour pressure	0.000 hPa Calculated Vapor Pressure
Density	0.87 g/cm3
	7.2200 lb/gal @ 60.00 °F / 15.56 °C
Water solubility	No data available
Solubility(ies)	No data available
Auto-ignition temperature	No data available
Viscosity, dynamic	No data available
Viscosity, kinematic	42 mm2/s @ 40 °C
Decomposition temperature	No data available

10. STABILITY AND REACTIVITY

Stability

Stable under recommended storage conditions.

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 available

11. TOXICOLOGICAL INFORMATION

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

Product

Acute oral toxicity : No data available

ASHLAND		Page: 6
SAFETY DATA SHEET		Revision Date: 11/02/2015
		Print Date: 11/6/2015
		MSDS Number: R0177840
Valvoline™ POWER STEERING FLUID ™ Trademark, Ashland or its subsidiaries, registered in various countries 3103		Version: 1.15

Acute inhalation toxicity : No data available

Acute dermal toxicity : No data available

Skin corrosion/irritation : Result: Repeated exposure may cause skin dryness or cracking.

Serious eye damage/eye irritation : Unlikely to cause eye irritation or injury.

Respiratory or skin sensitisation : No data available

Aspiration toxicity : No aspiration toxicity classification

Further information : No data available

Components:

No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

No data available

Components:

No data available

Persistence and degradability

Product:

No data available

Components:

No data available

Bioaccumulative potential

Product:

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

ASHLAND		Page: 7
SAFETY DATA SHEET		Revision Date: 11/02/2015
		Print Date: 11/6/2015
		MSDS Number: R0177840
Valvoline™ POWER STEERING FLUID ™ Trademark, Ashland or its subsidiaries, registered in various countries 3103		Version: 1.15

Components:

No data available

Mobility in soil

Product:

No data available

Components:

No data available

Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Harmful to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods

The product should not be allowed to enter drains, water courses or the soil. Dispose of in accordance with all applicable local, state and federal regulations.

Empty remaining contents. Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

REGULATION

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

U.S. DOT - ROAD

Not dangerous goods

U.S. DOT - RAIL

Not dangerous goods

U.S. DOT - INLAND WATERWAYS

Not dangerous goods

ASHLAND		Page: 8
SAFETY DATA SHEET		Revision Date: 11/02/2015
		Print Date: 11/6/2015
		MSDS Number: R0177840
Valvoline™ POWER STEERING FLUID ™ Trademark, Ashland or its subsidiaries, registered in various countries 3103		Version: 1.15

TRANSPORT CANADA - ROAD

Not dangerous goods

TRANSPORT CANADA - RAIL

Not dangerous goods

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

WHMIS Classification

Not Rated

WHMIS Ingredient Disclosure List IDL: No component is listed on the WHMIS ingredients disclosure list.

Canadian National Pollutant Release Inventory (NPRI) Canadian National Pollutant Release Inventory (NPRI):
No component is listed on NPRI.

Notification status

ASHLAND		Page: 9
SAFETY DATA SHEET		Revision Date: 11/02/2015
		Print Date: 11/6/2015
		MSDS Number: R0177840
Valvoline™ POWER STEERING FLUID ™ Trademark, Ashland or its subsidiaries, registered in various countries 3103		Version: 1.15

US. Toxic Substances Control Act	y (positive listing)
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL). (Can. Gaz. Part II, Vol. 133)	y (positive listing)
Australia. Industrial Chemical (Notification and Assessment) Act	y (positive listing)
New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand	y (positive listing)
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 Waste Control Act	y (positive listing)
China. Inventory of Existing Chemical Substances	y (positive listing)

	HMIS	NFPA
Health	1	1
Flammability	1	1
Physical hazards	0	
Instability		0
Specific Hazard	--	--

16. OTHER INFORMATION

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

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

ASHLAND ®		Page: 10
SAFETY DATA SHEET		Revision Date: 11/02/2015
		Print Date: 11/6/2015
		MSDS Number: R0177840
Valvoline™ POWER STEERING FLUID ™ Trademark, Ashland or its subsidiaries, registered in various countries 3103		Version: 1.15

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