

Revision Date: 07/31/2016

Print Date: 11/1/2016 SDS Number: R0067073

Version: 1.1

VALVOLINE™ AW 46 HYDRAULIC OIL

VV043

29 CFR 1910.1200 (OSHA HazCom 2012)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade name

: VALVOLINE™ AW 46 HYDRAULIC OIL

Recommended use of the chemical and restrictions on use

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

Hazardous components

Chemical Name	CAS-No.	Classification	Concentration (%)
Lubricating Oils (Petroleum), C20-	72623-87-1	Asp. Tox. 1; H304	1.06
50, Hydrotreated Neutral Oil-			

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SECTION 4	FIRST	MEASURES
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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	: 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	: Remove contact lenses. Protect unharmed eye.
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	 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 long-term 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 bloody sputum occur. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary abnormalities. Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea) irritation (nose, throat, airways)
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.



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		Water spray Foam Carbon dioxide (CO2) Dry chemical
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
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	: 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	 Smoking, eating and drinking should be prohibited in the application area. For personal protection see section 8.
Conditions for safe storage	: Electrical installations / working materials must comply with the technological safety standards.
Materials to avoid	: No materials to be especially mentioned.

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Lubricating Oils (Petroleum), C20-50, Hydrotreated Neutral Oil-Based	72623-87-1	REL	5 mg/m3 Mist.	NIOSH/GUID E
		STEL	10 mg/m3 Mist.	NIOSH/GUID E
		PEL	5 mg/m3 Mist.	OSHA_TRA NS
		TWA	5 mg/m3 Mist.	ACGIH
		STEL	10 mg/m3 Mist.	ACGIH
		TWA	0.2 mg/m3 Inhalable fraction.	ACGIHLIS_P
Engineering measures	conditions of exist, provide exhaust) ven guidelines (if suspected or	use. However, e sufficient mech tilation to mainta	uld be adequate for no if unusual operating c anical (general and/or in exposure below ex elow levels that cause se effects.	onditions [·] local posure
Personal protective equipmer		vooniunten vounte		
Respiratory protection	required.	respiratory prote	ctive equipment norm	lally
Eye protection			onditions of use. Wea al could be misted or	
Skin and body protection	: Wear as app Safety shoes Wear resista supplier).	;	lt your safety equipme	ent
Hygiene measures	: General indu	strial hygiene pr	actice.	

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	liquid
Odour	:	No data available



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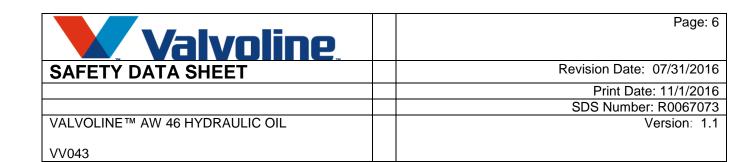
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Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Boiling point/boiling range	:	> 425 °F / 218 °C (1013.33 hPa)
Flash point	:	> 390 °F / > 199 °C Method: Cleveland open cup
Evaporation rate	:	1 Ethyl Ether
Flammability (solid, gas)	:	
		No data available
Flammability (liquids)	:	Static Accumulating liquid
Flammability (liquids) Upper explosion limit	:	6 %(V) Calculated Explosive Limit
Lower explosion limit	:	
Vapour pressure	:	· · · · · · · · · · · · · · · · · · ·
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	0.8686 g/cm3 (15.56 °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
Viscosity, kinematic	:	42 - 50 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	Strong oxidizing agents
Hazardous decomposition products	No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

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

Acute toxicity Not classified based on avail <u>Components:</u> Lubricating Oils (Petroleum), Acute oral toxicity	lable information. , C20-50, Hydrotreated Neutral Oil-Based : : LD 50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	 LC50 (Rat): > 5.58 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: Not classified as acutely toxic by inhalation under GHS. Remarks: No mortality observed at this dose.
Acute dermal toxicity	: LD 50 (Rabbit): > 5,000 mg/kg Remarks: No mortality observed at this dose.
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Skin corrosion/irritation

Not classified based on available information. <u>Product:</u> Result: Repeated exposure may cause skin dryness or cracking.

Components:

Lubricating Oils (Petroleum), C20-50, Hydrotreated Neutral Oil-Based: Species: Rabbit





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Result: Not irritating to skin

Serious eye damage/eye irritation

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

Components:

Lubricating Oils (Petroleum), C20-50, Hydrotreated Neutral Oil-Based: Species: Rabbit Result: Not irritating to eyes

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information. Respiratory sensitisation: Not classified based on available information. Components: Lubricating Oils (Petroleum), C20-50, Hydrotreated Neutral Oil-Based: Test Type: Buehler Test Species: Guinea pig Assessment: Does not cause skin sensitisation.

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. **Product:** No aspiration toxicity classification

Components:

Lubricating Oils (Petroleum), C20-50, Hydrotreated Neutral Oil-Based: May be fatal if swallowed and enters airways.

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.

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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

Components:				
Lubricating Oils (Petroleum), C20-50, Hydrotreated Neutral Oil-Based:				
Toxicity to fish :	LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h Test Type: static test Test substance: WAF Method: OECD Test Guideline 203 Remarks: No toxicity at the limit of solubility			
Toxicity to daphnia and other : aquatic invertebrates	EL50 (Daphnia magna (Water flea)): > 10,000 mg/l Exposure time: 48 h Test Type: static test Test substance: WAF Method: OECD Test Guideline 202			
Toxicity to algae :	NOEL (Pseudokirchneriella subcapitata (green algae)): >= 100 mg/l End point: Growth inhibition Exposure time: 72 h Test Type: static test Test substance: WAF Method: OECD Test Guideline 201			
Toxicity to fish (Chronic : toxicity)	NOELR (Oncorhynchus mykiss (rainbow trout)): Calculated >= 1,000 mg/l Exposure time: 14 d			
Toxicity to daphnia and other : aquatic invertebrates (Chronic toxicity)	NOEL (Daphnia (water flea)): 10 mg/l Exposure time: 21 d Test substance: WAF Method: OECD Test Guideline 211			
Persistence and degradability				
Componentes				

Components:

Lubricating Oils (Petroleum), C2	20	-50, Hydrotreated Neutral Oil-Based:
Biodegradability	:	Result: Not readily biodegradable. Biodegradation: 2 - 4 % Exposure time: 28 d Method: OECD Test Guideline 301B

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Bioaccumulative potential

Components:

No data available

Mobility in soil Components:

No data available

Other adverse effects

No data available

Product:

Additional ecological information

: No data available

Components:

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
General advice	: Dispose of in accordance with all applicable local, state and federal regulations.
Contaminated packaging	: Empty remaining contents.

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

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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

MX_DG

Not dangerous goods

*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

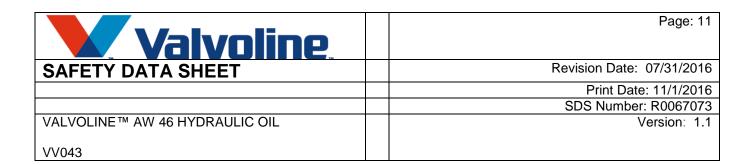
Marine pollutant

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.

no

SECTION 15. REGULATORY INFORMATION

SARA 311/312 Hazards	: No SARA Hazards		
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.		
Pennsylvania Right To Know HEAVY PARAFFINIC DISTILLATE		64742-54-7	90.00 - 100.00 %
New Jersey Right To Know			
HEAVY PARAFFINIC DISTILLATE		64742-54-7	90.00 - 100.00 %
Lubricating Oils (Petroleum), C20-50, 72623-87-1 1.0		1.00 - 5.00 %	



Hydrotreated Neutral Oil-Based

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

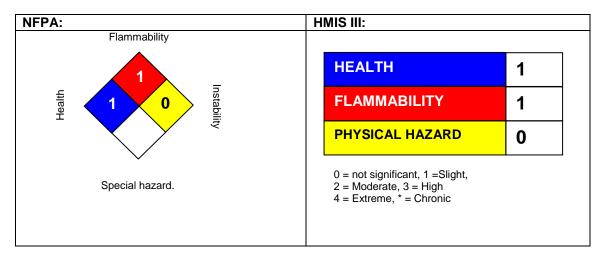
Inventories

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

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.



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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

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



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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