

Print Date: 4/11/2019 SDS Number: R0067073 Version: 1.3

Kubota® ISO 46 ALL-WEATHER HYDRAULIC FLUID

KU10602

29 CFR 1910.1200 (OSHA HazCom 2012) SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

:

Product identifier

Trade name

Kubota® ISO 46 ALL-WEATHER HYDRAULIC FLUID

Details of the supplier of the safety data sheet Valvoline LLC	Emergency telephone number 1-800-VALVOLINE (1-800-825-8654)
100 Valvoline Way Lexington, KY 40509 United States of America (USA)	Regulatory Information Number 1-800-TEAMVAL (1-800-832-6825)
1-800-TEAMVAL (1-800-832-6825)	Product Information 1-800-TEAMVAL (1-800-832-6825)
SDS@valvoline.com	

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Static Accumulator

Hazardous components

Chemical name	CAS-No.	Classification	Concentration (%)
DISTILLATES (PETROLEUM),	• · · · = • · ·		>=90.00 - <=
HYDROTREATED HEAVY		substance or mixture.	100.00
PARAFFINIC	70000 07 4		4 00 4 50
Lubricating Oils (Petroleum), C20-	72623-87-1	Asp. Tox. 1; H304	>=1.00 - < 1.50
50, Hydrotreated Neutral Oil-			
Based			



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SECTION 4. FIRST AID MEASURES

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General advice	: No	o hazards which require special first aid measures.
If inhaled	lf ac	breathed in, move person into fresh air. unconscious, place in recovery position and seek medical dvice. symptoms persist, call a physician.
In case of skin contact	re	rst aid is not normally required. However, it is commended that exposed areas be cleaned by washing ith soap and water.
In case of eye contact		emove contact lenses. rotect unharmed eye.
If swallowed	Ne	o not give milk or alcoholic beverages. ever give anything by mouth to an unconscious person. symptoms persist, call a physician.
Most important symptoms and effects, both acute and delayed	: No	o symptoms known or expected.
Notes to physician	: No	o 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 	
Specific hazards during firefighting	: Do not allow run-off from fire fighting to enter drains or wate courses.	эr
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.	





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Special protective equipment : In the event of fire, wear self-contained breathing apparatus. for firefighters

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.
Materials to avoid	: No materials to be especially mentioned.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC	64742-54-7	TWA	5 mg/m3 Mist	OSHA Z-1
		TWA	5 mg/m3 Inhalable fraction	ACGIH
		TWA	5 mg/m3 Mist	OSHA P0
		TWA	5 mg/m3 Mist	NIOSH REL
		ST	10 mg/m3 Mist	NIOSH REL
		PEL	5 mg/m3	CAL PEL



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			particulate	
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
				NIOSH/GUID E
		PEL	5 mg/m3 Mist.	OSHA_TRA NS
				OSHA_TRA NS
		TWA	5 mg/m3 Mist.	ACGIH
		STEL	10 mg/m3 Mist.	ACGIH
				ACGIH
		TWA	0.2 mg/m3 Inhalable fraction.	ACGIHLIS_P
				ACGIHLIS_P
				ACGIHLIS_P
				ACGIHLIS_P

Engineering measures : 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.

Personal protective equipment

Respiratory protection :	No personal respiratory protective equipment normally required.
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).
Hygiene measures :	General industrial hygiene practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state

: liquid



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Odour	: No data available
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
Upper explosion limit Lower explosion limit Vapour pressure	 6 %(V) Calculated Explosive Limit 1 %(V) Calculated Explosive Limit 0.0133333 hPa (21.11 °C)
	Calculated Vapor Pressure
Relative vapour density	: No data available
Data (in a stand)	
Relative density	: No data available
Relative density	 No data available 0.8686 g/cm3 (15.56 °C)
Density Solubility(ies)	: 0.8686 g/cm3 (15.56 °C)
Density Solubility(ies) Water solubility	 : 0.8686 g/cm3 (15.56 °C) : No data available
Density Solubility(ies) Water solubility Solubility in other solvents Partition coefficient: n-	 : 0.8686 g/cm3 (15.56 °C) : No data available : No data available
Density Solubility(ies) Water solubility Solubility in other solvents Partition coefficient: n- octanol/water	 : 0.8686 g/cm3 (15.56 °C) : No data available : No data available : No data available
Density Solubility(ies) Water solubility Solubility in other solvents Partition coefficient: n- octanol/water Thermal decomposition Viscosity	 : 0.8686 g/cm3 (15.56 °C) : No data available : No data available : No data available : 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	None known.
Incompatible materials	Strong acids Strong oxidizing agents
Hazardous decomposition products	No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of Inhalation Skin contact Eye Contact Ingestion Acute toxicity Not classified based on availab		
Components: DISTULATES (PETROLEUM)	\ F	IYDROTREATED HEAVY PARAFFINIC:
Acute oral toxicity		
Acute dermal toxicity	:	LD50 (Rabbit): > 5 g/kg
Lubricating Oils (Petroleum)	. C	20-50, Hydrotreated Neutral Oil-Based:
Acute oral toxicity	-	LD50 (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	:	LD50 (Rabbit): > 5,000 mg/kg Remarks: No mortality observed at this dose.

Skin corrosion/irritation

Not classified based on available information.



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Component			
		HYDROTREATED HEAVY PARAFFINIC:	
Assessment Result		Slight, transient irritation Slight, transient irritation	
Roodin			
		C20-50, Hydrotreated Neutral Oil-Based:	
Species Result		Rabbit No skin irritation	
Result		No Skin initiation	
	damage/eye irritat		
Not classifie Product:	d based on available	e information.	
Remarks	:	Unlikely to cause eye irritation or injury.	
Component			
Result		HYDROTREATED HEAVY PARAFFINIC: No eye irritation	
Assessment		No eye irritation	
	Oils (Petroleum), (C20-50, Hydrotreated Neutral Oil-Based:	
Species Result		Rabbit No eye irritation	
Result			
	or skin sensitisati	on	
Skin sensiti	•••••		
	d based on available sensitisation	e information.	
	d based on available	e information.	
<u>Component</u>			
	Oils (Petroleum), (C20-50, Hydrotreated Neutral Oil-Based:	
Test Type Species	:	Buehler Test Guinea pig	
Assessment		Does not cause skin sensitisation.	
	nutagenicity		
	d based on available	e information.	
Carcinogen	d based on available	information	
Component			
DISTILLATE	S (PETROLEUM),	HYDROTREATED HEAVY PARAFFINIC:	
Carcinogeni		elacentea bacca en Elle e chalact content (chegalation	
Assessment		(EC) 1272/2008, Annex VI, Part 3, Note L)	
Lubricating	Oils (Petroleum).	C20-50, Hydrotreated Neutral Oil-Based:	
Carcinogeni		Classified based on DMSO extract content < 3% (Regulation	
Assessment		(EC) 1272/2008, Annex VI, Part 3, Note L)	
	No comparant -	f this product propert at lough greater than an anual to 0.400 in	
IARU	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 o	f this product present at levels greater than or equal to 0.1% is	

OSHA No component of this product present at levels greater than or equal to 0.1% is



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on OSHA's list of regulated carcinogens.

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.

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

<u>Components:</u> DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC: No aspiration toxicity classification

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

Further information

Product: Remarks

: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity Product:

<u>Product:</u> Ecotoxicology Assessment Short-term (acute) aquatic hazard	: Not classified based on available information.
Long-term (chronic) aquatic hazard	: Not classified based on available information.
<u>Components:</u> DISTILLATES (PETROLEUM), Toxicity to fish	HYDROTREATED HEAVY PARAFFINIC: : LL50 (Fish): > 100 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EL50 (Aquatic invertebrates): > 10,000 mg/l Exposure time: 48 h
Toxicity to algae	: EL50 (Algae, algal mat (Algae)): > 100 mg/l Exposure time: 72 h



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Toxicity to fish (Chronic toxicity)	: NOEC (Fish): 10 mg/l
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	NOEC (Aquatic invertebrates): 10 mg/l
Ecotoxicology Assessment Short-term (acute) aquatic hazard	Not classified based on available information.
Long-term (chronic) aquatic hazard	Not classified based on available information.
	0-50, Hydrotreated Neutral Oil-Based: : 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)): >= 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 <u>Components:</u> Lubricating Oils (Petroleum), C2 Biodegradability	0-50, Hydrotreated Neutral Oil-Based: Result: Not readily biodegradable. Biodegradation: 2 - 4 % Exposure time: 28 d Method: OECD Test Guideline 301B



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No data available **Bioaccumulative potential** <u>Components:</u> DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC: Partition coefficient: noctanol/water

No data available Mobility in soil <u>Components:</u> No data available Other adverse effects No data available <u>Product:</u> Additional ecological : No data available information

Components:

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods : 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.

MX_DG

	Not dangerous goods
ſ	

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

Not dangerous goods



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INTERNATIONAL MARITIME DANGEROUS GOODS

Not dangerous goods

TDG_INWT_C

Not dangerous goods

TDG_RAIL_C

Not dangerous goods

TDG_ROAD_C

Not dangerous goods

U.S. DOT - INLAND WATERWAYS

Not dangerous goods

CFR_RAIL_C

Not dangerous goods

U.S. DOT - ROAD

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

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
TOLUENE	108-88-3	1000	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

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SARA 311/312 Hazards : No SARA Hazards

California Prop. 65

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This product contains a chemical that is at or below California Propositions 65's "safe harbor level" for carcinogenicity as determined via a risk assessment. Therefore, the chemical is not required to be listed as a Prop 65 chemical on the SDS or label.

This product contains a chemical that is at or below California Propositions 65's "safe harbor level" for reproductive/developmental toxicity as determined via a risk assessment. Therefore, the chemical is not required to be listed as a Prop 65 chemical on the SDS or label.

The components of this product are reported in the following inventories:

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	:	On the inventory, or in compliance with the inventory
TCSI	:	On the inventory, or in compliance with the inventory
TSCA	:	On TSCA Inventory

TSCA list

No substances are subject to TSCA 12(b) export notification requirements.

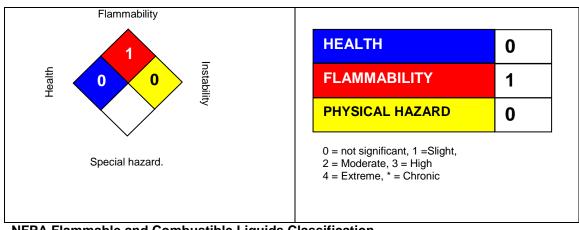
SECTION 16. OTHER INFORMATION

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NFPA:

HMIS III:

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NFPA Flammable and Combustible Liquids Classification Combustible Liquid Class IIIB

Full text of H-Statements

H304 May be fatal if swallowed and enters airways.

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).

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"



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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