<b>ASHLAND</b>		Page: 1
SAFETY DATA SHEET	Revision [	Date: 05/21/2015
	Pri	nt Date: 6/9/2015
	SDS NI	mber: R0229763
Kubota® SAE 10W-30 KUBOTA # 70000-10205 ENGINE OIL		Version: 1.0
KU10205		

## 29 CFR 1910.1200 (OSHA HazCom 2012)

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

# Product identifier

Trade name

: Kubota® SAE 10W-30 KUBOTA # 70000-10205 ENGINE OIL

## Recommended use of the chemical and restrictions on use

Details of the supplier of the safety data	Emergency telephone number
sheet	1-800-ASHLAND (1-800-274-5263)
Ashland	
P.O. Box 2219	Regulatory Information Number
Columbus, OH 43216	1-800-325-3751
United States of America	
	Product Information
	614-790-3333
EHS Customer Requests@ashland.com	

## **SECTION 2. HAZARDS IDENTIFICATION**

GHS Classification Eye irritation	: Category 2A
Reproductive toxicity	: Category 2
GHS Label element Hazard pictograms	
Signal Word	: Warning
Hazard Statements	: Causes serious eye irritation. Suspected of damaging fertility or the unborn child.
Precautionary Statements	<ul> <li>Prevention:</li> <li>Obtain special instructions before use.</li> <li>Do not handle until all safety precautions have been read and understood.</li> <li>Wash skin thoroughly after handling.</li> <li>Wear protective gloves/ protective clothing/ eye protection/ face protection.</li> <li>Response:</li> </ul>

<b>ASHLAND</b>	Page: 2
SAFETY DATA SHEET	Revision Date: 05/21/2015
	Print Date: 6/9/2015
	SDS Number: R0229763
Kubota® SAE 10W-30 KUBOTA # 70000-10205 ENGINE OIL	Version: 1.0
KU10205	

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/ attention. If eye irritation persists: Get medical advice/ attention. **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
---------------------	---	---------

## Hazardous components

Chemical Name	CAS-No.	Classification	Concentration (%)
HEAVY PARAFFINIC DISTILLATE	64742-54-7	Asp. Tox. 1; H304	25.91
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC	64742-65-0	Asp. Tox. 1; H304	8.89
HYDROTREATED LIGHT PARAFFINIC DISTILLATE	64742-55-8	Asp. Tox. 1; H304	1.91
ZINC DIALKYLDITHIOPHOSPHATE	93819-94-4	Skin Irrit. 2; H315 Eye Dam. 1; H318	1.07
DODECYLPHENOL, MIXED ISOMERS	121158-58-5	Skin Irrit. 2; H315 Eye Irrit. 2A; H319 Repr. 2; H361 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	0.16

ASHLAND.	Page: 3
SAFETY DATA SHEET	Revision Date: 05/21/2015
	Print Date: 6/9/2015
	SDS Number: R0229763
Kubota® SAE 10W-30 KUBOTA # 70000-10205 ENGINE OIL	Version: 1.0
KU10205	

## **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	Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye.
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	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: acne stomach or intestinal upset (nausea, vomiting, diarrhea)

<b>ASHLAND</b>	Page: 4
SAFETY DATA SHEET	Revision Date: 05/21/2015
	Print Date: 6/9/2015
	SDS Number: R0229763
Kubota® SAE 10W-30 KUBOTA # 70000-10205 ENGINE OIL	Version: 1.0
KU10205	

irritation (nose, throat, airways)
Causes serious eye irritation.
Suspected of damaging fertility or the unborn child.

# 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.
Hazardous combustion products	:	carbon dioxide and carbon monoxide Hydrocarbons hydrogen sulfide zinc oxide Sulphur oxides mercaptans
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.
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	:	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

<b>ASHLAND</b>	Page: 5
SAFETY DATA SHEET	Revision Date: 05/21/2015
	Print Date: 6/9/2015
	SDS Number: R0229763
Kubota® SAE 10W-30 KUBOTA # 70000-10205 ENGINE OIL	Version: 1.0
KU10205	

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	<ul> <li>Do not breathe vapours/dust.</li> <li>Do not smoke.</li> <li>Container hazardous when empty.</li> <li>Avoid contact with skin and eyes.</li> <li>Smoking, eating and drinking should be prohibited in the application area.</li> <li>For personal protection see section 8.</li> <li>Dispose of rinse water in accordance with local and national regulations.</li> </ul>
Conditions for safe storage	<ul> <li>Keep container tightly closed in a dry and well-ventilated place.</li> <li>Containers which are opened must be carefully resealed and kept upright to prevent leakage.</li> <li>Observe label precautions.</li> <li>Electrical installations / working materials must comply with the technological safety standards.</li> </ul>

# 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), SOLVENT-DEWAXED HEAVY PARAFFINIC	64742-65-0	PEL	500 ppm 2,000 mg/m3	OSHA_TRA NS
		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.	Z1A
		TWA	400 ppm	Z1A

<b>ASHLAND</b>	Page: 6
SAFETY DATA SHEET	Revision Date: 05/21/2015
	Print Date: 6/9/2015
	SDS Number: R0229763
Kubota® SAE 10W-30 KUBOTA # 70000-10205 ENGINE OIL	Version: 1.0
KU10205	

			1,600 mg/m3	
HYDROTREATED LIGHT	64742-55-8	REL	5 mg/m3	NIOSH/GUID
PARAFFINIC DISTILLATE			Mist.	E
		STEL	10 mg/m3	NIOSH/GUID
			Mist.	E
		PEL	5 mg/m3	OSHA_TRA
			Mist.	NS
PETROLEUM DISTILLATE	64741-89-5	REL	5 mg/m3	NIOSH/GUID
			Mist.	E
		STEL	10 mg/m3	NIOSH/GUID
			Mist.	E
		PEL	5 mg/m3	OSHA_TRA
			Mist.	NS
		TWA	5 mg/m3	ACGIH
			Inhalable fraction.	

**Engineering measures** : 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	:	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 air- purifying 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 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	:	Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.
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. Wear resistant gloves (consult your safety equipment supplier).
Hygiene measures	:	Wash hands before breaks and at the end of workday. When using do not eat or drink. When using do not smoke.

<b>ASHLAND</b>	Page: 7
SAFETY DATA SHEET	Revision Date: 05/21/2015
	Print Date: 6/9/2015
	SDS Number: R0229763
Kubota® SAE 10W-30 KUBOTA # 70000-10205 ENGINE OIL	Version: 1.0
KU10205	

# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: liquid
Colour	: amber
Odour	: oily
Odour Threshold	: No data available
рН	: No data available
	: No data available
Boiling point/boiling range	: 520.0 °F / 271.1 °C (1,013.333333 hPa) Calculated Phase Transition Liquid/Gas
Flash point	<ul> <li>&gt; 390 °F / &gt; 199 °C</li> <li>Method: Cleveland open cup</li> </ul>
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Upper explosion limit	: 6 %(V) Calculated Explosive Limit
Lower explosion limit	: 1 %(V) Calculated Explosive Limit
Vapour pressure	<ul> <li>1.33333333 hPa (20 °C)</li> <li>Calculated Vapor Pressure</li> </ul>
Relative vapour density	: No data available
Relative density	: 0.88 (15.6 °C)
Density	: 0.87 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

<b>ASHLAND</b>	Page: 8
SAFETY DATA SHEET	Revision Date: 05/21/2015
	Print Date: 6/9/2015
	SDS Number: R0229763
Kubota® SAE 10W-30 KUBOTA # 70000-10205 ENGINE OIL	Version: 1.0
KU10205	

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	: excessive heat
Incompatible materials	: Strong oxidizing agents
Hazardous decomposition products	carbon dioxide and carbon monoxide Hydrocarbons hydrogen sulfide Sulphur oxides zinc oxide fumes mercaptans

# SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	: Inhalation Skin contact Eye Contact Ingestion
Acute toxicity Not classified based on availab <u>Components:</u> HEAVY PARAFFINIC DISTILLA Acute oral toxicity	
Acute dermal toxicity	: LD 50 (Rabbit): > 5 g/kg
DISTILLATES (PETROLEUM), Acute oral toxicity	SOLVENT-DEWAXED HEAVY PARAFFINIC: : LD 50 (Rat): > 5,000 mg/kg
Acute dermal toxicity	: LD 50 (Rabbit): > 5,000 mg/kg
ZINC DIALKYLDITHIOPHOSP Acute oral toxicity	HATE <b>:</b> : LD 50 (Rat): 2,600 mg/kg

<b>ASHLAND</b>		Page: 9
SAFETY DATA SHEET	Revision Date: 05/2	21/2015
	Print Date: 6	/9/2015
	SDS Number: R0	229763
Kubota® SAE 10W-30 KUBOTA # 70000-10205 ENGINE OIL	Versi	on: 1.0
KU10205		

#### Skin corrosion/irritation

Not classified based on available information. <u>Product:</u> Remarks: May cause skin irritation in susceptible persons.

Result: Repeated exposure may cause skin dryness or cracking.

#### **Components:**

HEAVY PARAFFINIC DISTILLATE: Result: Mildly irritating to skin

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC: Result: Mildly irritating to skin

HYDROTREATED LIGHT PARAFFINIC DISTILLATE: Result: Mildly irritating to skin

ZINC DIALKYLDITHIOPHOSPHATE: Result: Irritating to skin

DODECYLPHENOL, MIXED ISOMERS: Result: Irritating to skin

#### Serious eye damage/eye irritation

Causes serious eye irritation.

#### Product:

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin., Causes serious eye irritation.

#### Components:

HEAVY PARAFFINIC DISTILLATE: Result: Not irritating to eyes

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC: Result: Mildly irritating to eyes

HYDROTREATED LIGHT PARAFFINIC DISTILLATE: Result: Mildly irritating to eyes

ZINC DIALKYLDITHIOPHOSPHATE: Result: Corrosive to eyes

DODECYLPHENOL, MIXED ISOMERS: Result: Irritating to eyes

#### Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information. Respiratory sensitisation: Not classified based on available information. Germ cell mutagenicity Not classified based on available information. Carcinogenicity Not classified based on available information.

ASHLAND.	Page: 10
SAFETY DATA SHEET	Revision Date: 05/21/2015
	Print Date: 6/9/2015
	SDS Number: R0229763
Kubota® SAE 10W-30 KUBOTA # 70000-10205 ENGINE OIL	Version: 1.0
KU10205	

Reproductive toxicity Suspected of damaging fertility or the unborn child. Components: DODECYLPHENOL, MIXED ISOMERS: Reproductive toxicity - : Suspected of damaging fertility. Assessment

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:

HEAVY PARAFFINIC DISTILLATE: May be fatal if swallowed and enters airways.

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC: May be fatal if swallowed and enters airways.

HYDROTREATED LIGHT PARAFFINIC DISTILLATE: 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.
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:

HEAVY PARAFFINIC DISTILLATE: Toxicity to fish : LL50 (Fish): > 100 mg/l

<b>ASHLAND</b>	Page: 11
SAFETY DATA SHEET	Revision Date: 05/21/2015
	Print Date: 6/9/2015
	SDS Number: R0229763
Kubota® SAE 10W-30 KUBOTA # 70000-10205 ENGINE OIL	Version: 1.0
KU10205	

Toxicity to daphnia and other aquatic invertebrates: EL50 (Aquatic invertebrates): > 10,000 mg/lToxicity to algae: EL50 (Algae, algal mat (Algae)): > 100 mg/lToxicity to fish (Chronic toxicity): NOEC (Fish): 10 mg/l
Toxicity to fish (Chronic : NOEC (Fish): 10 mg/l toxicity)
toxicity)
Toxicity to daphnia and other : NOEC (Aquatic invertebrates): 10 mg/l aquatic invertebrates (Chronic toxicity)
ZINC DIALKYLDITHIOPHOSPHATE:
Toxicity to fish: LL50 (Oncorhynchus mykiss (rainbow trout)): 4.5 mg/lExposure time: 96 hTest Type: semi-static test
Toxicity to daphnia and other aquatic invertebratesEC 50 (Water flea (Daphnia magna)): 5.4 mg/l Exposure time: 48 h Test Type: static test
Toxicity to algae : EC 50 (Selenastrum capricornutum (green algae)): 2.1 End point: Growth inhibition Exposure time: 72 h
Test Type: static test
DODECYLPHENOL, MIXED ISOMERS:
DODECYLPHENOL, MIXED ISOMERS: M-Factor (Acute aquatic : 1
DODECYLPHENOL, MIXED ISOMERS: M-Factor (Acute aquatic : 1 toxicity) M-Factor (Chronic aquatic : 1
DODECYLPHENOL, MIXED ISOMERS: M-Factor (Acute aquatic : 1 toxicity) M-Factor (Chronic aquatic : 1 toxicity) Ecotoxicology Assessment
DODECYLPHENOL, MIXED ISOMERS:         M-Factor (Acute aquatic : 1         toxicity)         M-Factor (Chronic aquatic : 1         toxicity)         Ecotoxicology Assessment         Acute aquatic toxicity : Very toxic to aquatic life.
DODECYLPHENOL, MIXED ISOMERS: M-Factor (Acute aquatic : 1 toxicity)M-Factor (Chronic aquatic : 1 toxicity)M-Factor (Chronic aquatic : 1 toxicity)Ecotoxicology Assessment Acute aquatic toxicity : Very toxic to aquatic life.Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.
DODECYLPHENOL, MIXED ISOMERS:         M-Factor (Acute aquatic : 1         toxicity)         M-Factor (Chronic aquatic : 1         toxicity)         M-Factor (Chronic aquatic : 1         toxicity)         Ecotoxicology Assessment Acute aquatic toxicity : 1         Korie aquatic toxicity : 1         Yery toxic to aquatic life.         Chronic aquatic toxicity : 1         Yery toxic to aquatic life with long lasting effects.         Persistence and degradability
DODECYLPHENOL, MIXED ISOMERS:         M-Factor (Acute aquatic       : 1         toxicity)         M-Factor (Chronic aquatic       : 1         Ecotoxicology Assessment       : 1         Acute aquatic toxicity       : Very toxic to aquatic life.         Chronic aquatic toxicity       : Very toxic to aquatic life with long lasting effects.         Persistence and degradability       : Components:
DODECYLPHENOL, MIXED ISOMERS:         M-Factor (Acute aquatic       : 1         toxicity)         M-Factor (Chronic aquatic       : 1         Ecotoxicology Assessment         Acute aquatic toxicity       : Very toxic to aquatic life.         Chronic aquatic toxicity       : Very toxic to aquatic life with long lasting effects.         Persistence and degradability       : Very toxic to aquatic life with long lasting effects.         ZINC DIALKYLDITHIOPHOSPHATE:       Biodegradability         Biodegradability       : Biodegradation: 1.5 % Exposure time: 28 d
DODECYLPHENOL, MIXED ISOMERS:         M-Factor (Acute aquatic       :         toxicity)         M-Factor (Chronic aquatic       :         M-Factor (Chronic aquatic       :         toxicity)         Ecotoxicology Assessment         Acute aquatic toxicity       :         Very toxic to aquatic life.         Chronic aquatic toxicity       :         Very toxic to aquatic life with long lasting effects.         Persistence and degradability         ZINC DIALKYLDITHIOPHOSPHATE:         Biodegradability         Exposure time: 28 d         Remarks: Not readily biodegradable.

<b>ASHLAND</b>	Page: 12
SAFETY DATA SHEET	Revision Date: 05/21/2015
	Print Date: 6/9/2015
	SDS Number: R0229763
Kubota® SAE 10W-30 KUBOTA # 70000-10205 ENGINE OIL	Version: 1.0
KU10205	

octanol/water

# Mobility in soil Components:

No data available

# Other adverse effects

No data available

## Product:

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

## Components:

# SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
General advice	<ul> <li>The product should not be allowed to enter drains, water courses or the soil.</li> <li>Do not contaminate ponds, waterways or ditches with chemical or used container.</li> <li>Send to a licensed waste management company.</li> <li>Dispose of in accordance with all applicable local, state and</li> </ul>
Contaminated packaging	<ul> <li>federal regulations.</li> <li>Empty remaining contents.</li> <li>Dispose of as unused product.</li> <li>Empty containers should be taken to an approved waste handling site for recycling or disposal.</li> </ul>
	Do not re-use empty containers.

# **SECTION 14. TRANSPORT INFORMATION**

## International transport regulations

#### REGULATION

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

# U.S. DOT - ROAD

Not dangerous goods	

## U.S. DOT - RAIL

Not dangerous goods

<b>ASHLAND</b>	Page: 13
SAFETY DATA SHEET	Revision Date: 05/21/2015
	Print Date: 6/9/2015
	SDS Number: R0229763
Kubota® SAE 10W-30 KUBOTA # 70000-10205 ENGINE OIL	Version: 1.0
KU10205	

## U.S. DOT - INLAND WATERWAYS

Not dangerous goods

## 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

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.

## SECTION 15. REGULATORY INFORMATION

## EPCRA - Emergency Planning and Community Right-to-Know Act

no

#### **CERCLA Reportable Quantity**

Components CAS-No. Component RQ Calculated product RC	ג
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ASHLAND.	Page: 14
SAFETY DATA SHEET	Revision Date: 05/21/2015
	Print Date: 6/9/2015
	SDS Number: R0229763
Kubota® SAE 10W-30 KUBOTA # 70000-10205 ENGINE OIL	Version: 1.0
KU10205	

		(lbs)		(lbs)
ARSENIC	7440-38-2	1		66666.666667
SARA 311/312 Hazards	Acute Health Hazard Chronic Health Haza			
SARA 313 Component(s)	ZINC BIS[O-(6- METHYLHELPTYL) -SEC- BUTYL)]BIS(DITHIC PATE)	]BIS[O	819-94-4	1.07 %
Pennsylvania Right To Know HEAVY PARAFF	INIC DISTILLATE	64	742-54-7	50.00 - 70.00 %
HEAVY PARAFF	INIC DISTILLATE	64	742-54-7	20.00 - 30.00 %
LUBRICANT ADI	DITIVE	No	ot Assigne	ed 5.00 - 10.00 %
DISTILLATES (P DEWAXED HEA	ETROLEUM), SOLV VY PARAFFINIC	ENT- 64	742-65-0	5.00 - 10.00 %
HYDROTREATE DISTILLATE	D LIGHT PARAFFIN	IC 64	742-55-8	1.00 - 5.00 %
New Jersey Right To Know HEAVY PARAFF	INIC DISTILLATE	64	742-54-7	50.00 - 70.00 %
HEAVY PARAFF	INIC DISTILLATE	64	742-54-7	20.00 - 30.00 %
LUBRICANT ADI	DITIVE	No	ot Assigne	ed 5.00 - 10.00 %
DISTILLATES (P DEWAXED HEA	ETROLEUM), SOLV VY PARAFFINIC	ENT- 64	742-65-0	5.00 - 10.00 %
HYDROTREATE DISTILLATE	D LIGHT PARAFFIN	IC 64	742-55-8	1.00 - 5.00 %
ZINC DIALKYLD	ITHIOPHOSPHATE	93	819-94-4	1.00 - 5.00 %
PETROLEUM DI	STILLATE	64	741-89-5	0.10 - 1.00 %
California Prop 65Proposition 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: TSCAOn TSCA Inventory			nt.	

DSL	: All components of this product are on the Canadian DSL.
AUSTR	: On the inventory, or in compliance with the inventory

<b>ASHLAND</b>	Page: 15
SAFETY DATA SHEET	Revision Date: 05/21/2015
	Print Date: 6/9/2015
	SDS Number: R0229763
Kubota® SAE 10W-30 KUBOTA # 70000-10205 ENGINE OIL	Version: 1.0
KU10205	

ENCS	: Not 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

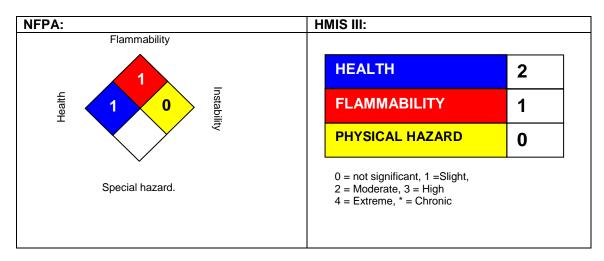
## Inventories

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**

Revision Date: 05/21/2015



#### NFPA Flammable and Combustible Liquids Classification Combustible Liquid Class IIIB

Full text of H-Statements referred to under sections 2 and 3.		
H304	May be fatal if swallowed and enters airways.	
H315	Causes skin irritation.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H361	Suspected of damaging fertility or the unborn child.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	

Sources of key data used to compile the Safety Data Sheet

<b>ASHLAND</b>	Page: 16
SAFETY DATA SHEET	Revision Date: 05/21/2015
	Print Date: 6/9/2015
	SDS Number: R0229763
Kubota® SAE 10W-30 KUBOTA # 70000-10205 ENGINE OIL	Version: 1.0
KU10205	

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

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

 $\mathsf{Ecxx}:\mathsf{Effective}\ \mathsf{Concentration}\ \mathsf{of}\ \mathsf{xx}$ 

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

ASHLAND.	Page: 17
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PMRA : Health Canada Pest Management Regulatory Agency RTK : Right to Know WHMIS : Workplace Hazardous Materials Information System