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SECTION	1. IDENTIFICATION			
Produ	ict name	:	Komatsu Powertra	ain Oil TO 10
Produ	ict code	:	001B1672	
Manu	facturer or supplier's	deta	ails	
Manu	facturer/Supplier	:	Shell Canada Pro 400 - 4th Avenue Calgary AB T2P Canada	S.W
Telep Telefa		:	(+1) 8006611600 (+1) 4033848345	
Emer ber	gency telephone num-	:	(US)	hr): 1 (703) 527-3887 or 1 (800) 424-9300): (+1) 613-996-6666; Toll Free: 1-888-CAN-
Baaa	mmanded use of the a	hon	nical and restriction	

Recommended use of the chemical and restrictions on use

Recommended use :	Transmission oil.
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SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Based on available data this substance / mixture does not meet the classification criteria.

GHS label elements

Hazard pictograms	: No Hazard Symbol required
Signal word	: No signal word
Hazard statements	 PHYSICAL HAZARDS: Not classified as a physical hazard under GHS criteria. HEALTH HAZARDS: Not classified as a health hazard under GHS criteria. ENVIRONMENTAL HAZARDS: Not classified as an environmental hazard under GHS criteria.
Precautionary statements	: Prevention: No precautionary phrases. Response: No precautionary phrases. Storage:
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No precautionary phrases. **Disposal:** No precautionary phrases.

Other hazards which do not result in classification

Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis. Used oil may contain harmful impurities.

Not classified as flammable but will burn.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance name	: Komatsu Powertrain Oil TO 10
Chemical nature	 Highly refined mineral oils and additives. The highly refined mineral oil contains <3% (w/w) DMSO- extract, according to IP346.
	* contains one or more of the following CAS-numbers: 64742- 53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-65-0, 68037-01-4, 72623-86-0, 72623-87-1, 8042-47-5, 848301-69- 9.

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Overbased sulphurised calcium phenate	68784-26-9	1 - 3
Zinc dialkyldithiophosphate	68649-42-3	1 - 2.4
Interchangeable low viscosity base oil (<20,5 cSt @40°C) *	Not Assigned	0 - 90

SECTION 4. FIRST-AID MEASURES

General advice	Not expected to be a health hazard when used under norma conditions.	al
If inhaled	No treatment necessary under normal conditions of use. If symptoms persist, obtain medical advice.	
In case of skin contact	 Remove contaminated clothing. Flush exposed area with we ter and follow by washing with soap if available. If persistent irritation occurs, obtain medical attention. 	a-
In case of eye contact	 Flush eye with copious quantities of water. Remove contact lenses, if present and easy to do. Continue rinsing. If persistent irritation occurs, obtain medical attention. 	Э
If swallowed	In general no treatment is necessary unless large quantities are swallowed, however, get medical advice.	3

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	et important symptoms effects, both acute and lyed	of black pustule	itis signs and symptoms may include formation es and spots on the skin of exposed areas. result in nausea, vomiting and/or diarrhoea.
Prot	ection of first-aiders	appropriate per	ering first aid, ensure that you are wearing the sonal protective equipment according to the and surroundings.
Note	es to physician	: Treat symptom	atically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Foam, water spray or fog. Dry chemical powder, carbon diox- ide, sand or earth may be used for small fires only.
Unsuitable extinguishing media	:	Do not use water in a jet.
Specific hazards during fire- fighting	:	Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide may be evolved if incomplete combustion occurs. Unidentified organic and inorganic compounds.
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment.
Special protective equipment for firefighters	:	Proper protective equipment including chemical resistant gloves are to be worn; chemical resistant suit is indicated if large contact with spilled product is expected. Self-Contained Breathing Apparatus must be worn when approaching a fire in a confined space. Select fire fighter's clothing approved to relevant Standards (e.g. Europe: EN469).

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Avoid contact with skin and eyes.
Environmental precautions	:	Use appropriate containment to avoid environmental contami- nation. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.
		Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	:	Slippery when spilt. Avoid accidents, clean up immediately. Prevent from spreading by making a barrier with sand, earth or other containment material.
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		Soak up resi	id directly or in an absorbent. due with an absorbent such as clay, sand or other erial and dispose of properly.
Addit	ional advice	see Chapter	e on selection of personal protective equipment 8 of this Safety Data Sheet. e on disposal of spilled material see Chapter 13 of Pata Sheet.
SECTION	7. HANDLING AND	STORAGE	
Gene	eral Precautions	vapours, mis Use the infor sessment of	haust ventilation if there is risk of inhalation of its or aerosols. mation in this data sheet as input to a risk as- local circumstances to help determine appropri- for safe handling, storage and disposal of this
Advic	ce on safe handling	Avoid inhalin When handli worn and pro Properly disp	ged or repeated contact with skin. g vapour and/or mists. ng product in drums, safety footwear should be oper handling equipment should be used. oose of any contaminated rags or cleaning mate- to prevent fires.
Avoid	dance of contact	: Strong oxidis	sing agents.
Prod	uct Transfer	Proper grour	I has the potential to be a static accumulator. nding and bonding procedures should be used lk transfer operations.
Stora	-		
Othe	r data	place.	ner tightly closed and in a cool, well-ventilated a labeled and closable containers.
		Store at amb	pient temperature.
Pack	aging material	steel or high	erial: For containers or container linings, use mild density polyethylene. naterial: PVC.
Conta	ainer Advice		e containers should not be exposed to high tem- cause of possible risk of distortion.

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SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Oil mist, mineral	Not Assigned	TWA ((inhal- able frac- tion))	5 mg/m3	US. ACGIH Threshold Limit Values
		TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Inhal-	5 mg/m3	ACGIH
		able fraction)		

Biological occupational exposure limits

No biological limit allocated.

Monitoring Methods

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate.

Validated exposure measurement methods should be applied by a competent person and samples analysed by an accredited laboratory.

Examples of sources of recommended exposure measurement methods are given below or contact the supplier. Further national methods may be available.

National Institute of Occupational Safety and Health (NIOSH), USA: Manual of Analytical Methods http://www.cdc.gov/niosh/

Occupational Safety and Health Administration (OSHA), USA: Sampling and Analytical Methods http://www.osha.gov/

Health and Safety Executive (HSE), UK: Methods for the Determination of Hazardous Substances http://www.hse.gov.uk/

Institut für Arbeitsschutz Deutschen Gesetzlichen Unfallversicherung (IFA), Germany http://www.dguv.de/inhalt/index.jsp

L'Institut National de Recherche et de Securité, (INRS), France http://www.inrs.fr/accueil

 Engineering measures
 : The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include:

 Adequate ventilation to control airborne concentrations.

 Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.

 General Information:

 Define procedures for safe handling and maintenance of controls.

 Educate and train workers in the hazards and control measures relevant to normal activities associated with this product.

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		equipment used equipment, loca Drain down syst nance. Retain drain dor subsequent rec Always observe washing hands drinking, and/or protective equip	good personal hygiene measures, such as after handling the material and before eating, smoking. Routinely wash work clothing and ment to remove contaminants. Discard con- ing and footwear that cannot be cleaned.
Pers	onal protective equip	ment	
Resp	iratory protection	conditions of us In accordance w tions should be If engineering c tions to a level w select respirator cific conditions of Check with resp Where air-filterin priate combinat Select a filter su	protection is ordinarily required under normal with good industrial hygiene practices, precau- taken to avoid breathing of material. ontrols do not maintain airborne concentra- which is adequate to protect worker health, ry protection equipment suitable for the spe- of use and meeting relevant legislation. biratory protective equipment suppliers. ng respirators are suitable, select an appro- ion of mask and filter. uitable for the combination of organic gases type A/Type P boiling point >65°C (149°F)].
	l protection emarks	gloves approved US: F739) made suitable chemic gloves Suitabilit usage, e.g. freq sistance of glov glove suppliers. Personal hygier Gloves must on gloves, hands s cation of a non- For continuous through time of 480 minutes wh short-term/splas recognize that s may not be ava time maybe acc and replacemer a good predicto	ntact with the product may occur the use of d to relevant standards (e.g. Europe: EN374, e from the following materials may provide al protection. PVC, neoprene or nitrile rubber ty and durability of a glove is dependent on guency and duration of contact, chemical re- e material, dexterity. Always seek advice from Contaminated gloves should be replaced. he is a key element of effective hand care. Hy be worn on clean hands. After using should be washed and dried thoroughly. Appli- perfumed moisturizer is recommended. contact we recommend gloves with break- more than 240 minutes with preference for > here suitable gloves can be identified. For sh protection we recommend the same, but suitable gloves offering this level of protection ilable and in this case a lower breakthrough exptable so long as appropriate maintenance int regimes are followed. Glove thickness is not r of glove resistance to a chemical as it is he exact composition of the glove material.

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			ess should be typically greater than 0.35 mm n the glove make and model.		
Еуе р	protection		handled such that it could be splashed into eyes, ewear is recommended.		
Skin a	Skin and body protection :		Skin protection is not ordinarily required beyond standard work clothes. It is good practice to wear chemical resistant gloves.		
Therr	nal hazards	: Not applicabl	e		
Prote	ctive measures		tective equipment (PPE) should meet recom- onal standards. Check with PPE suppliers.		
Envir	ronmental exposure c	ontrols			
Gene	ral advice	· Take approp	riate measures to fulfill the requirements of rele-		

General advice	 Take appropriate measures to fulfill the requirements of relevant environmental protection legislation. Avoid contamination of the environment by following advice given in Chapter 6. If necessary, prevent undissolved material from being discharged to waste water. Waste water should be treated in a municipal or industrial waste water treatment plant before discharge to surface water. Local guidelines on emission limits for volatile substances must be observed for the discharge of exhaust air containing vapour.
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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Liquid at room temperature.
Colour	: amber
Odour	: Slight hydrocarbon
Odour Threshold	: Data not available
рН	: Not applicable
pour point	: -36 °C / -33 °F Method: ISO 3016
Initial boiling point and boiling range	: > 280 °C / 536 °F estimated value(s)
Flash point	: 200 °C / 392 °F
	Method: ISO 2592

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	Evapor	ation rate	:	Data not availabl	e
	Flamma	ability (solid, gas)	:	Data not availabl	e
	Upper e	explosion limit	:	Typical 10 %(V)	
	Lower e	explosion limit	:	Typical 1 %(V)	
	Vapour	pressure	:	< 0.5 Pa (20 °C / estimated value(
	Relative	e vapour density	:	> 1 estimated value(s)
	Relative	e density	:	0.884 (15 °C / 59)°F)
	Density	/	:	884 kg/m3 (15.0	°C / 59.0 °F)Method: ISO 12185
	Solubili Wate	ty(ies) er solubility	:	negligible	
	Solu	bility in other solvents	:	Data not availabl	e
	Partition octanol	n coefficient: n- /water	:	Pow: > 6 (based on inform	ation on similar products)
	Auto-ig	nition temperature	:	> 320 °C / 608 °F	-
	Viscosi Visco	ty osity, dynamic	:	Data not availabl	e
	Visco	osity, kinematic	:	36 mm2/s (40.0 ° Method: ISO 310	
				6 mm2/s (100 °C Method: ISO 310	
	Explosi	ve properties	:	Not classified	
	Oxidizir	ng properties	:	Data not availabl	e
	Conduc	ctivity	:	This material is n	ot expected to be a static accumulator.
	Decom	position temperature	:	Data not availabl	e

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: The product does not pose any further reactivity hazards in addition to those listed in the following sub-paragraph.	
Chemical stability	: Stable.	
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Poss tions	ibility of hazardous read	- : Reacts with	strong oxidising agents.
Conc	litions to avoid	: Extremes of	temperature and direct sunlight.
Incor	npatible materials	: Strong oxidi	sing agents.
Haza produ	rdous decomposition ucts	: Hazardous of during norm	decomposition products are not expected to form al storage.

SECTION 11. TOXICOLOGICAL INFORMATION

Basis for assessment	: Information given is based on data on the components and the toxicology of similar products.Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s).

Information on likely routes of exposure

Skin and eye contact are the primary routes of exposure although exposure may occur following accidental ingestion.

Acute toxicity

Product:

Acute oral toxicity	: LD50 (rat): > 5,000 mg/kg Remarks: Expected to be of low toxicity:	
Acute inhalation toxicity	: Remarks: Not considered to be an inhalation hazard unde normal conditions of use.	r
Acute dermal toxicity	: LD50 (Rabbit): > 5,000 mg/kg Remarks: Expected to be of low toxicity:	

Skin corrosion/irritation

Product:

Remarks: Expected to be slightly irritating. Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.

Serious eye damage/eye irritation

Product:

Remarks: Expected to be slightly irritating.

Components:

Zinc dialkyldithiophosphate:

Remarks: Based on available data, the classification criteria are not met.

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Respiratory or skin sensitisation

Product:

Remarks: Not expected to be a skin sensitiser.

Germ cell mutagenicity

Product:

Genotoxicity in vivo

: Remarks: Not considered a mutagenic hazard.

Carcinogenicity

Product:

Remarks: Not expected to be carcinogenic.

Remarks: Product contains mineral oils of types shown to be non-carcinogenic in animal skinpainting studies.

Highly refined mineral oils are not classified as carcinogenic by the International Agency for Research on Cancer (IARC).

Reproductive toxicity

Product:

Effects on fertility

Remarks: Not expected to impair fertility. Not expected to be a developmental toxicant.

STOT - single exposure

Product:

Remarks: Not expected to be a hazard.

STOT - repeated exposure

Product:

Remarks: Not expected to be a hazard.

Aspiration toxicity

Product:

Not considered an aspiration hazard.

Further information

Product:

Remarks: Used oils may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and the environment on disposal.

ALL used oil should be handled with caution and skin contact avoided as far as possible.

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Remarks: Slightly irritating to respiratory system.

SECTION 12. ECOLOGICAL INFORMATION

Basis for assessment	:	Ecotoxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the ecotoxicology of similar products. Unless indicated otherwise, the data presented is representa- tive of the product as a whole, rather than for individual com- ponent(s).(LL/EL/IL50 expressed as the nominal amount of product required to prepare aqueous test extract).	
Ecotoxicity			
Product: Toxicity to fish (Acute toxici- ty)	:	Remarks: Expected to be practically non toxic: LL/EL/IL50 > 100 mg/l	
Toxicity to crustacean (Acute toxicity)	:	Remarks: Expected to be practically non toxic: LL/EL/IL50 > 100 mg/l	
Toxicity to algae/aquatic plants (Acute toxicity)	:	Remarks: Expected to be practically non toxic: LL/EL/IL50 > 100 mg/l	
Toxicity to fish (Chronic tox- icity)	:	Remarks: Data not available	
Toxicity to crustacean	:	Remarks: Data not available	
(Chronic toxicity) Toxicity to microorganisms (Acute toxicity)	:	Remarks: Data not available	
Persistence and degradability			
<u>Product:</u> Biodegradability	:	Remarks: Expected to be not readily biodegradable. Major constituents are expected to be inherently biodegrada- ble, but contains components that may persist in the environ- ment.	
Bioaccumulative potential			
Product: Bioaccumulation	:	Remarks: Contains components with the potential to bioac- cumulate.	

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	ion coefficient: n- ol/water	: Pow: > 6 Remarks: (ba	sed on information on similar products)
Mobi	lity in soil		
Prod	uct:		
Mobility			uid under most environmental conditions. , it will adsorb to soil particles and will not be
		Remarks: Floa	ats on water.
Othe	r adverse effects		
Prod	uct:		
Additional ecological infor- mation	expected to b Not expected	nixture of non-volatile components, which are not e released to air in any significant quantities. to have ozone depletion potential, photochemi- ation potential or global warming potential.	
		Poorly soluble May cause ph	e mixture. hysical fouling of aquatic organisms.
			not expected to cause any chronic effects to isms at concentrations less than 1 mg/l.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues	; :	Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal meth- ods in compliance with applicable regulations. Do not dispose into the environment, in drains or in water courses
		Waste product should not be allowed to contaminate soil or ground water, or be disposed of into the environment. Waste, spills or used product is dangerous waste.
Contaminated packa	nging :	Dispose in accordance with prevailing regulations, preferably to a recognized collector or contractor. The competence of the collector or contractor should be established beforehand. Disposal should be in accordance with applicable regional, national, and local laws and regulations.
Local legislation Remarks	:	Disposal should be in accordance with applicable regional, national, and local laws and regulations.
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SECTION 14. TRANSPORT INFORMATION

National Regulations

TDG

Not regulated as a dangerous good

International Regulations

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied. MARPOL Annex 1 rules apply for bulk shipments by sea.

Special precautions for user

Remarks

: Special Precautions: Refer to Chapter 7, Handling & Storage, for special precautions which a user needs to be aware of or needs to comply with in connection with transport.

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

The components of this product are reported in the following inventories:			
EINECS	: All components listed or polymer exempt.		
TSCA	: All components listed.		
DSL	: All components listed.		
TSCA DSL	All components listed.All components listed.		

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada);

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ECx - Concentration associated with x% response: ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC -No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration. Evaluation. Authorisation and Restriction of Chemicals: SADT - Self-Accelerating Decomposition Temperature: SDS - Safety Data Sheet: TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS -Workplace Hazardous Materials Information System

A vertical bar () in the left marg	in	indicates an amendment from the previous version.
Sources of key data used to	:	The quoted data are from, but not limited to, one or more
compile the Safety Data		sources of information (e.g. toxicological data from Shell
Sheet		Health Services, material suppliers' data, CONCAWE, EU
		IUCLID date base, EC 1272 regulation, etc).

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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