1. IDENTIFICATION OF THE S Material Name Uses		TANCE/PREPARATION AND COMPANY/UNDERTAKING Helix HX5 AF 10W-30 Engine oil.
Product Code	:	001C9625
Manufacturer/Supplier	:	Shell India Markets Private Limited 2nd Floor, Campus 4A RMZ Millenia Park 143 Dr. MGR Road, Perungudi CHENNAI 600096 India
Telephone Fax	:	(+91) 04443450000 (+91) 04443451516
Emergency Telephone Number	:	+91 22 6516 1058

2. COMPOSITION/INFORMATION ON INGREDIENTS

Preparation Description

: Highly refined mineral oil, severely hydrotreated slack wax and additives.

Hazardous Compo	onents				
Chemical Identity	CAS	EINECS	Symbol(s)	R-phrase(s)	Conc.
Zinc dialkyl dithiophosphate			Xi	R38; R41	1.00 - 3.00 %

Additional Information	:	The highly refined mineral oil contains <3% (w/w) DMSO-
		extract, according to IP346. Refer to chapter 16 for full text of EC R-phrases.

3. HAZARDS IDENTIFICATION		
EC Classification	:	Not classified as dangerous under EC criteria.
Health Hazards	:	Not expected to be a health hazard when used under normal conditions. 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.
Signs and Symptoms	:	Oil acne/folliculitis signs and symptoms may include formation of black pustules and spots on the skin of exposed areas. Ingestion may result in nausea, vomiting and/or diarrhoea.
Safety Hazards Environmental Hazards	:	Not classified as flammable but will burn. Not classified as dangerous for the environment.

I. FIRST AID MEASURES	
General Information	: Not expected to be a health hazard when used under normal
	conditions.
Inhalation	: No treatment necessary under normal conditions of use. If
Chin Contoot	symptoms persist, obtain medical advice.
Skin Contact	: Remove contaminated clothing. Flush exposed area with water
	and follow by washing with soap if available. If persistent irritation occurs, obtain medical attention.
Eye Contact	: Flush eye with copious quantities of water. If persistent
Eye Contact	irritation occurs, obtain medical attention.
Ingestion	: In general no treatment is necessary unless large quantities
ingestion	are swallowed, however, get medical advice.
Advice to Physician	: Treat symptomatically.
Advice to r hysiolai	. Trout symptomationly.
5. FIRE FIGHTING MEASURES	S.
Clear fire area of all non-em	
Specific Hazards	: Hazardous combustion products may include: A complex
•	mixture of airborne solid and liquid particulates and gases
	(smoke). Carbon monoxide. Unidentified organic and inorganic
	compounds.
Suitable Extinguishing	: Foam, water spray or fog. Dry chemical powder, carbon
Media	dioxide, sand or earth may be used for small fires only.
Unsuitable Extinguishing	: Do not use water in a jet.
Media	
Protective Equipment for	: Proper protective equipment including breathing apparatus
	must be worn when approaching a fire in a confined space.
ACCIDENTAL RELEASE ME Avoid contact with spilled or equipment see Chapter 8 of	must be worn when approaching a fire in a confined space.
ACCIDENTAL RELEASE ME Avoid contact with spilled or equipment see Chapter 8 of disposal. Observe the releva	must be worn when approaching a fire in a confined space. ASURES r released material. For guidance on selection of personal protective f this Material Safety Data Sheet. See Chapter 13 for information on ant local and international regulations.
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ACCIDENTAL RELEASE ME Avoid contact with spilled or equipment see Chapter 8 of disposal. Observe the releva Protective measures Clean Up Methods Additional Advice	 must be worn when approaching a fire in a confined space. EASURES released material. For guidance on selection of personal protective f this Material Safety Data Sheet. See Chapter 13 for information on ant local and international regulations. Avoid contact with skin and eyes. Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers. Slippery when spilt. Avoid accidents, clean up immediately. Prevent from spreading by making a barrier with sand, earth or other containment material. Reclaim liquid directly or in an absorbent. Soak up residue with an absorbent such as clay, sand or other suitable material and dispose of properly. Local authorities should be advised if significant spillages cannot be contained. Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols. Properly dispose of any contaminated rags or cleaning materials in order to prevent
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	appropriate controls for safe handling, storage and disposal of this material.
Handling	: Avoid prolonged or repeated contact with skin. Avoid inhaling vapour and/or mists. When handling product in drums, safety
	footwear should be worn and proper handling equipment
	should be used.
Storage	: Keep container tightly closed and in a cool, well-ventilated
U	place. Use properly labelled and closeable containers. Storage
	Temperature: 0 - 50 °C / 32 - 122 °F
Recommended Materials	: For containers or container linings, use mild steel or high
	density polyethylene.
Unsuitable Materials	: PVC.
Additional Information	: Polyethylene containers should not be exposed to high
	temperatures because of possible risk of distortion.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

If the American Conference of Governmental Industrial Hygienists (ACGIH) value is provided on this document, it is provided for information only.

Material	Source	Туре	ppm	mg/m3	Notation
Oil mist, mineral	IN OEL	TWA [Mist.]		5 mg/m3	
	IN OEL	STEL [Mist.]		10 mg/m3	
	ACGIH	TWA [Inhalable fraction.]		5 mg/m3	
Exposure Contro Personal Protect Equipment		depending up based on a ris Appropriate m airborne conc mist formed, t concentrations Personal prote	on potential sk assessme leasures incl entrations. V here is great s to be gene ective equipr	exposure condition nt of local circums lude: Adequate ve Vhere material is h ter potential for air	ntilation to control leated, sprayed or borne I meet
Respiratory P	rotection :	conditions of a practices, pre- material. If en concentrations health, select specific condit Check with re air-filtering res combination of	use. In accor cautions sho gineering co s to a level w respiratory pr tions of use a spiratory pro spirators are f mask and t ticulate/orga	s ordinarily require dance with good in ould be taken to av ntrols do not main which is adequate to protection equipment and meeting relevant tective equipment suitable, select ar filter. Select a filter nic gases and vap	ndustrial hygiene oid breathing of tain airborne to protect worker ent suitable for the ant legislation. suppliers. Where appropriate

Occupational Exposure Limits

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bur pressure : sity : er solubility : bility in other solvents : tanol/water partition :

Basis for Assessment	: Information given is based on data on the components and the toxicology of similar products.
Acute Oral Toxicity	: Expected to be of low toxicity: LD50 > 5000 mg/kg , Rat
Acute Dermal Toxicity	: Expected to be of low toxicity: LD50 > 5000 mg/kg , Rabbit
Acute Inhalation Toxicity	: Not considered to be an inhalation hazard under normal conditions of use.
Skin Irritation	: 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.
Eye Irritation	: Expected to be slightly irritating.
Respiratory Irritation	: Inhalation of vapours or mists may cause irritation.
Sensitisation	: Not expected to be a skin sensitiser.
Repeated Dose Toxicity	Not expected to be a hazard.
Mutagenicity	Not considered a mutagenic hazard.
Carcinogenicity	: Product contains mineral oils of types shown to be non- carcinogenic in animal skin-painting studies. Highly refined mineral oils are not classified as carcinogenic by the International Agency for Research on Cancer (IARC). Other components are not known to be associated with carcinogenic effects.
Reproductive and Developmental Toxicity	: Not expected to be a hazard.
Additional Information	: 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. Continuous contact with used engine oils has caused skin cancer in animal tests.

12. ECOLOGICAL INFORMATION

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.

Acute Toxicity	:	Poorly soluble mixture. May cause physical fouling of aquatic organisms. Expected to be practically non toxic: LL/EL/IL50 > 100 mg/l (to aquatic organisms) (LL/EL50 expressed as the nominal amount of product required to prepare aqueous test extract). Mineral oil is not expected to cause any chronic effects to aquatic organisms at concentrations less than 1 mg/l.
Microorganisms	:	Data not available
Mobility	:	Liquid under most environmental conditions. Floats on water. If it enters soil, it will adsorb to soil particles and will not be mobile.
Persistence/degradability	:	Expected to be not readily biodegradable. Major constituents are expected to be inherently biodegradable, but the product contains components that may persist in the environment.
Bioaccumulation	:	Contains components with the potential to bioaccumulate.
Other Adverse Effects	:	Product is a mixture of non-volatile components, which are not expected to be released to air in any significant quantities. Not

expected to have ozone depletion potential, photochemical ozone creation potential or global warming potential.

13. DISPOSAL CONSIDERATIONS	
Material Disposal :	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 methods in compliance with applicable regulations. Do not dispose into the environment, in drains or in water courses.
Container Disposal	Dispose in accordance with prevailing regulations, preferably to a recognised collector or contractor. The competence of the collector or contractor should be established beforehand.
Local Legislation	Disposal should be in accordance with applicable regional, national, and local laws and regulations.

14. TRANSPORT INFORMATION

Land (as per ADR classification): Not regulated

This material is not classified as dangerous under ADR regulations.

IMDG

This material is not classified as dangerous under IMDG regulations.

IATA (Country variations may apply)

This material is either not classified as dangerous under IATA regulations or needs to follow country specific requirements.

15. REGULATORY INFORMATION

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

EC Classification EC Symbols EC Risk Phrases EC Safety Phrases	: :	Not classified as dangerous under EC criteria. No Hazard Symbol required Not classified. Not classified.
Chemical Inventory Status		
EINECS	÷	All components
		listed or polymer
		exempt.
TSCA	:	All components
		listed.
Other Information	:	The Manufacture, Storage and Import of Hazardous Chemicals Rules 1989 (amended version issued 2000). The Factories Act, 1948, The Second Schedule: Permissible levels of certain chemical substances in work environment, as amended through 1987. India Central motor Vehicles (Amendment) Rules 1993.
		6/7

16. OTHER INFORMATION

R-phrase(s)

R38 R41	Not classified. Irritating to skin. Risk of serious damage to eyes.		
MSDS Version	Number	:	1.1
MSDS Effective	e Date	:	30.09.2011
MSDS Revision	าร	:	A vertical bar () in the left margin indicates an amendment from the previous version.
MSDS Distribu	tion	:	The information in this document should be made available to all who may handle the product.
Disclaimer		:	This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.