

**Safety Data Sheet**  
**Safety Data Sheet**

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**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING**

Helix HX5 15W-40 : **Material Name**  
Engine oil. : **Recommended Use /  
Restrictions of Use**

001C8216 : **Product Code**

**Shell Oman Marketing Company SAOG** : **Supplier**  
Mina Al Fahal  
PO BOX 38  
PC116 Muscat  
Sultanate of Oman

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(+968) 99231647 : **Emergency Telephone  
Number**

If you have any enquiries about the content of this MSDS : **Email Contact for MSDS**  
please email lubricantSDS@shell.com

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**2. HAZARDS IDENTIFICATION**

**Labeling according to Directive 1999/45/EC/67/548/EEC**  
Not classified as dangerous under EC criteria. : **EC Classification**

NOT HAZARDOUS, : **GHS Classification**

No symbol No signal word • **Symbol(s)** • • • • • **GHS Label Elements**  
: **Symbol(s)**  
No symbol  
No signal word : **Signal Words**

**PHYSICAL HAZARDS:** : **Hazard Statement**  
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.

**GHS Precautionary Statements** No precautionary phrases.  
No precautionary phrases. : **Prevention**

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No precautionary phrases. : **Response**

No precautionary phrases. : **Storage**

No precautionary phrases. : **Disposal**

Not classified as flammable but will burn. : **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.

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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Highly refined mineral oils and additives. : **Preparation Description**

The highly refined mineral oil contains <3% (w/w) DMSO-extract, according to IP346. : **Additional Information**

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**4. FIRST AID MEASURES**

Not expected to be a health hazard when used under normal conditions. : **General Information**

No treatment necessary under normal conditions of use. If symptoms persist, obtain medical advice. : **Inhalation**

Remove contaminated clothing. Flush exposed area with water and follow by washing with soap if available. If persistent irritation occurs, obtain medical attention. : **Skin Contact**

Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical attention. : **Eye Contact**

In general no treatment is necessary unless large quantities are swallowed, however, get medical advice. : **Ingestion**

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. : **Most Important Symptoms/Effects, Acute & Delayed**

Treat symptomatically. : **Immediate medical attention, special treatment**

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**5. FIRE FIGHTING MEASURES**

Clear fire area of all non-emergency personnel.

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Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide. Unidentified organic and inorganic compounds.	: <b>Specific hazards arising from Chemicals</b>
Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.	: <b>Suitable Extinguishing Media</b>
Do not use water in a jet.	: <b>Unsuitable Extinguishing Media</b>
Proper protective equipment including breathing apparatus must be worn when approaching a fire in a confined space.	: <b>Protective Equipment &amp; Precautions for Fire Fighters</b>

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**6. ACCIDENTAL RELEASE MEASURES**

Avoid contact with spilled or released material. For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. See Chapter 13 for information on disposal. Observe the relevant local and international regulations.

Avoid contact with skin and eyes.	: <b>Personal Precautions, Protective Equipment and Emergency Procedures</b>
Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.	: <b>Environmental Precautions</b>
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.	: <b>Methods and Material for Containment and Clean Up</b>
Local authorities should be advised if significant spillages cannot be contained.	: <b>Additional Advice</b>

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**7. HANDLING AND STORAGE**

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 fires. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.	: <b>General Precautions</b>
Avoid prolonged or repeated contact with skin. Avoid inhaling	: <b>Precautions for Safe</b>

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vapour and/or mists. When handling product in drums, safety footwear should be worn and proper handling equipment should be used. **Handling**

Keep container tightly closed and in a cool, well-ventilated place. Use properly labelled and closeable containers. Store at ambient temperature. **Conditions for Safe Storage**

For containers or container linings, use mild steel or high density polyethylene. **Recommended Materials**

PVC. **Unsuitable Materials**

Polyethylene containers should not be exposed to high temperatures because of possible risk of distortion. **Other Advice**

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**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.

**Occupational Exposure Limits**

Notation	mg/m3	ppm	Type	Source	Material
	5 mg/m3		TWA [Inhalable fraction.]	ACGIH	Oil mist, mineral

**Biological Exposure Index (BEI) - See reference for full details**

Data not available

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 Engineering Controls**

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.

Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers. **Individual Protection Measures**

No respiratory protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material. If engineering controls do not maintain airborne **Respiratory Protection**

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concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for combined particulate/organic gases and vapours [boiling point >65°C(149 °F)].

Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended.	<b>Hand Protection</b>
Wear safety glasses or full face shield if splashes are likely to occur.	<b>Eye Protection</b>
Skin protection not ordinarily required beyond standard issue work clothes.	<b>Protective Clothing</b>
Not applicable.	<b>Thermal Hazards</b>
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.	<b>Monitoring Methods</b>
Minimise release to the environment. An environmental assessment must be made to ensure compliance with local environmental legislation.	<b>Environmental Exposure Controls</b>

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Amber. Liquid at room temperature.	<b>Appearance</b>
Slight hydrocarbon	<b>Odour</b>
Data not available	<b>Odour threshold</b>
Not applicable.	<b>pH</b>
> 280 °C / 536 °F estimated value(s)	<b>Initial Boiling Point and Boiling Range</b>
Typical -30 °C / -22 °F	<b>Pour point</b>
Typical 220 °C / 428 °F (COC)	<b>Flash point</b>
Typical 1 - 10 %(V) (based on mineral oil)	<b>Upper / lower Flammability or Explosion limits</b>
> 320 °C / 608 °F	<b>Auto-ignition temperature</b>
< 0,5 Pa at 20 °C / 68 °F (estimated value(s))	<b>Vapour pressure</b>
Typical 0,885 at 15 °C / 59 °F	<b>Relative Density</b>

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Typical 885 kg/m <sup>3</sup> at 15 °C / 59 °F	:	Density
Negligible.	:	Water solubility
Data not available	:	Solubility in other solvents
> 6 (based on information on similar products)	:	n-octanol/water partition coefficient (log Pow)
Data not available	:	Dynamic viscosity
Typical 105,4 mm <sup>2</sup> /s at 40 °C / 104 °F	:	Kinematic viscosity
> 1 (estimated value(s))	:	Vapour density (air=1)
Data not available	:	Evaporation rate (nBuAc=1)
Data not available	:	Decomposition Temperature
Data not available	:	Flammability

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**10. STABILITY AND REACTIVITY**

Stable.	:	Chemical Stability
Reacts with strong oxidising agents.	:	Possibility of Hazardous Reactions
Extremes of temperature and direct sunlight.	:	Conditions to Avoid
Strong oxidising agents.	:	Incompatible Materials
Hazardous decomposition products are not expected to form during normal storage.	:	Hazardous Decomposition Products

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**11. TOXICOLOGICAL INFORMATION**  
Information on Toxicological effects

Information given is based on data on the components and the toxicology of similar products.	:	Basis for Assessment
Skin and eye contact are the primary routes of exposure although exposure may occur following accidental ingestion.	:	Likely Routes of Exposure
Expected to be of low toxicity: LD50 > 5000 mg/kg , Rat	:	Acute Oral Toxicity
Expected to be of low toxicity: LD50 > 5000 mg/kg , Rabbit	:	Acute Dermal Toxicity
Not considered to be an inhalation hazard under normal conditions of use.	:	Acute Inhalation Toxicity
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.	:	Skin Corrosion/Irritation
Expected to be slightly irritating.	:	Serious Eye Damage/Irritation
Inhalation of vapours or mists may cause irritation.	:	Respiratory Irritation

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Not expected to be a skin sensitiser.	:	<b>Respiratory or Skin Sensitisation</b>
Not considered an aspiration hazard.	:	<b>Aspiration Hazard</b>
Not considered a mutagenic hazard.	:	<b>Germ Cell Mutagenicity</b>
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.	:	<b>Carcinogenicity</b>
Not expected to be a hazard.	:	<b>Reproductive and Developmental Toxicity</b>
Not expected to be a hazard.	:	<b>Specific target organ toxicity - single exposure</b>
Not expected to be a hazard.	:	<b>Specific target organ toxicity - repeated exposure</b>
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.	:	<b>Additional Information</b>

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**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.	:	<b>Basis for Assessment</b>
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.	:	<b>Acute Toxicity</b>
Data not available	:	<b>Microorganisms</b>
Liquid under most environmental conditions. Floats on water. If it enters soil, it will adsorb to soil particles and will not be mobile.	:	<b>Mobility</b>
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.	:	<b>Persistence/degradability</b>
Contains components with the potential to bioaccumulate.	:	<b>Bioaccumulative</b>

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Product is a mixture of non-volatile components, which are not : **Potential**  
expected to be released to air in any significant quantities. Not **Other Adverse Effects**  
expected to have ozone depletion potential, photochemical  
ozone creation potential or global warming potential.

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**13. DISPOSAL CONSIDERATIONS**

Recover or recycle if possible. It is the responsibility of the : **Material Disposal**  
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.

Dispose in accordance with prevailing regulations, preferably to : **Container Disposal**  
a recognised collector or contractor. The competence of the  
collector or contractor should be established beforehand.

Disposal should be in accordance with applicable regional, : **Local Legislation**  
national, and local laws and regulations.

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**14. TRANSPORT INFORMATION**

**Land (as per ADR classification): Not regulated** This material is not classified as dangerous under  
ADR regulations.  
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.

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**15. REGULATORY INFORMATION**

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

**Chemical Inventory Status**

All components : EINECS  
listed or polymer  
exempt.

All components : TSCA  
listed.



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16. OTHER INFORMATION

1.1 :	MSDS Version Number
12/01/2011 :	MSDS Effective Date
A vertical bar ( ) in the left margin indicates an amendment from the previous version.	MSDS Revisions
The information in this document should be made available to all who may handle the product.	MSDS Distribution
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.	Disclaimer

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## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

**Material Name** : Helix HX5 15W-40  
**Recommended Use / Restrictions of Use** : Engine oil.

**Product Code** : 001C8216

**Supplier** : Shell Oman Marketing Company SAOG  
Mina Al Fahal  
PO BOX 38  
PC116 Muscat  
Sultanate of Oman

**Telephone** : (+968) 24570100  
**Fax** : (+968) 24570121  
**Emergency Telephone Number** : (+968) 99231647  
**Email Contact for MSDS** : If you have any enquiries about the content of this MSDS please email lubricantSDS@shell.com

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## 2. HAZARDS IDENTIFICATION

**Labeling according to Directive 1999/45/EC/67/548/EEC**  
EC Classification : Not classified as dangerous under EC criteria.

**GHS Classification** : NOT HAZARDOUS,

**GHS Label Elements**  
**Symbol(s)** :  
No symbol

**Signal Words** : No signal word

**Hazard Statement** : 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.

**GHS Precautionary Statements**  
**Prevention** : No precautionary phrases.

**Response** : No precautionary phrases.  
**Storage** : No precautionary phrases.  
**Disposal** : No precautionary phrases.

**Other Hazards which do not result in classification** : Not classified as flammable but will burn.

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.

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Preparation Description** : Highly refined mineral oils and additives.

**Additional Information** : The highly refined mineral oil contains <3% (w/w) DMSO-extract, according to IP346.

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### 4. 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 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 irritation occurs, obtain medical attention.  
**Ingestion** : In general no treatment is necessary unless large quantities are swallowed, however, get medical advice.  
**Most Important Symptoms/Effects, Acute & Delayed** : 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.  
**Immediate medical attention, special treatment** : Treat symptomatically.

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### 5. FIRE FIGHTING MEASURES

Clear fire area of all non-emergency personnel.

**Specific hazards arising from Chemicals** : 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 Media** : Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
- Unsuitable Extinguishing Media** : Do not use water in a jet.
- Protective Equipment & Precautions for Fire Fighters** : Proper protective equipment including breathing apparatus must be worn when approaching a fire in a confined space.

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## 6. ACCIDENTAL RELEASE MEASURES

Avoid contact with spilled or released material. For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. See Chapter 13 for information on disposal. Observe the relevant local and international regulations.

- Personal Precautions, Protective Equipment and Emergency Procedures** : Avoid contact with skin and eyes.
- Environmental Precautions** : Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.
- Methods and Material for Containment and Clean Up** : 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.
- Additional Advice** : Local authorities should be advised if significant spillages cannot be contained.

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## 7. HANDLING AND STORAGE

- General Precautions** : 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 fires. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.
- Precautions for Safe 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.
- Conditions for Safe Storage** : Keep container tightly closed and in a cool, well-ventilated place. Use properly labelled and closeable containers. Store at ambient temperature.

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- Recommended Materials** : For containers or container linings, use mild steel or high density polyethylene.
- Unsuitable Materials** : PVC.
- Other Advice** : Polyethylene containers should not be exposed to high temperatures because of possible risk of distortion.

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**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.

**Occupational Exposure Limits**

Material	Source	Type	ppm	mg/m3	Notation
Oil mist, mineral	ACGIH	TWA(Inhalable fraction.)		5 mg/m3	

**Biological Exposure Index (BEI) - See reference for full details**

Data not available

- Appropriate Engineering Controls** : 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.
- Individual Protection Measures** : Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

- Respiratory Protection** : No respiratory protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material. If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for combined particulate/organic gases and vapours [boiling point >65°C(149 °F)].

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- Hand Protection** : Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended.
- Eye Protection** : Wear safety glasses or full face shield if splashes are likely to occur.
- Protective Clothing** : Skin protection not ordinarily required beyond standard issue work clothes.
- Thermal Hazards** : Not applicable.
- 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.
- Environmental Exposure Controls** : Minimise release to the environment. An environmental assessment must be made to ensure compliance with local environmental legislation.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance** : Amber. Liquid at room temperature.
- Odour** : Slight hydrocarbon
- Odour threshold** : Data not available
- pH** : Not applicable.
- Initial Boiling Point and Boiling Range** : > 280 °C / 536 °F estimated value(s)
- Pour point** : Typical -30 °C / -22 °F
- Flash point** : Typical 220 °C / 428 °F (COC)
- Upper / lower Flammability or Explosion limits** : Typical 1 - 10 %(V) (based on mineral oil)
- Auto-ignition temperature** : > 320 °C / 608 °F
- Vapour pressure** : < 0,5 Pa at 20 °C / 68 °F (estimated value(s))
- Relative Density** : Typical 0,885 at 15 °C / 59 °F
- Density** : Typical 885 kg/m<sup>3</sup> at 15 °C / 59 °F
- Water solubility** : Negligible.
- Solubility in other solvents** : Data not available
- n-octanol/water partition coefficient (log Pow)** : > 6 (based on information on similar products)

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<b>Dynamic viscosity</b>	: Data not available
<b>Kinematic viscosity</b>	: Typical 105,4 mm <sup>2</sup> /s at 40 °C / 104 °F
<b>Vapour density (air=1)</b>	: > 1 (estimated value(s))
<b>Evaporation rate (nBuAc=1)</b>	: Data not available
<b>Decomposition Temperature</b>	: Data not available
<b>Flammability</b>	: Data not available

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**10. STABILITY AND REACTIVITY**

<b>Chemical Stability</b>	: Stable.
<b>Possibility of Hazardous Reactions</b>	: Reacts with strong oxidising agents.
<b>Conditions to Avoid</b>	: Extremes of temperature and direct sunlight.
<b>Incompatible Materials</b>	: Strong oxidising agents.
<b>Hazardous Decomposition Products</b>	: Hazardous decomposition products are not expected to form during normal storage.

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**11. TOXICOLOGICAL INFORMATION****Information on Toxicological effects**

<b>Basis for Assessment</b>	: Information given is based on data on the components and the toxicology of similar products.
<b>Likely Routes of Exposure</b>	: Skin and eye contact are the primary routes of exposure although exposure may occur following accidental ingestion.
<b>Acute Oral Toxicity</b>	: Expected to be of low toxicity: LD50 > 5000 mg/kg , Rat
<b>Acute Dermal Toxicity</b>	: Expected to be of low toxicity: LD50 > 5000 mg/kg , Rabbit
<b>Acute Inhalation Toxicity</b>	: Not considered to be an inhalation hazard under normal conditions of use.
<b>Skin Corrosion/Irritation</b>	: 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.
<b>Serious Eye Damage/Irritation</b>	: Expected to be slightly irritating.
<b>Respiratory Irritation</b>	: Inhalation of vapours or mists may cause irritation.
<b>Respiratory or Skin Sensitisation</b>	: Not expected to be a skin sensitiser.
<b>Aspiration Hazard</b>	: Not considered an aspiration hazard.
<b>Germ Cell Mutagenicity</b>	: Not considered a mutagenic hazard.
<b>Carcinogenicity</b>	: Product contains mineral oils of types shown to be non-

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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.
- Specific target organ toxicity - single exposure** : Not expected to be a hazard.
- Specific target organ toxicity - repeated exposure** : 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.

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**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.
- 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.
- Bioaccumulative Potential** : 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.



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### 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.

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### 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.

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### 15. REGULATORY INFORMATION

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

**Chemical Inventory Status**

- EINECS : All components listed or polymer exempt.
- TSCA : All components listed.

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### 16. OTHER INFORMATION

- MSDS Version Number** : 1.1
- MSDS Effective Date** : 12/01/2011
- MSDS Revisions** : A vertical bar (|) in the left margin indicates an amendment from the previous version.
- MSDS Distribution** : 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.