According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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SECTION 1. IDENTIFICATION		
Product name	: Pennzoil Marine XLF	
Product code	: 228C6926	
Manufacturer or supplier's de	etails	
Manufacturer/Supplier	<ul> <li>Shell Oil Products US</li> <li>PO Box 4427</li> <li>Houston TX 77210-4427</li> <li>USA</li> </ul>	
SDS Request Customer Service	: (+1) 877-276-7285 :	
<b>Emergency telephone numbe</b> Spill Information Health Information	er : 877-504-9351 : 877-242-7400	
Recommended use of the ch Recommended use	emical and restrictions on use : Engine oil.	

# **SECTION 2. HAZARDS IDENTIFICATION**

## **GHS Classification**

Not a hazardous substance or mixture.

### GHS label elements

Hazard pictograms	: No Hazard Symbol required
Signal word	: No signal word
Hazard statements	<ul> <li>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.</li> </ul>
Precautionary statements	<ul> <li>Prevention: No precautionary phrases.</li> <li>Response: No precautionary phrases.</li> <li>Storage: No precautionary phrases.</li> <li>Disposal: No precautionary phrases.</li> </ul>

# 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.

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Used oil may contain harmful impurities. Not classified as flammable but will burn.

The classification of this material is based on OSHA HCS 2012 criteria.

Under normal conditions of use or in a foreseeable emergency, this product does not meet the definition of a hazardous chemical when evaluated according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

# SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

: Highly refined mineral oils and additives. The highly refined mineral oil contains <3% (w/w) DMSOextract, according to IP346.

#### Hazardous components

Chemical name	Synonyms	CAS-No.	Concentration (%)
distillates (petroleum), hydrotreated light	Distillates (petrole- um), hydrotreated light	64742-47-8	15 - 25
Distillates (petroleum), hydrotreated light	Distillates (petrole- um), hydrotreated light	64742-47-8	1 - 3
White mineral oil (petrole- um)	White mineral oil (petroleum)	8042-47-5	1 - 3

#### **SECTION 4. FIRST-AID MEASURES**

General advice	:	Not expected to be a health hazard when used under normal conditions.
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 wa- ter and follow by washing with soap if available. If persistent irritation occurs, obtain medical attention.
In case of eye contact	:	Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical attention.
If swallowed	:	In general no treatment is necessary unless large quantities are swallowed, however, get medical advice.
Most important symptoms and effects, both acute and 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.
Protection of first-aiders	:	When administering first aid, ensure that you are wearing the appropriate personal protective equipment according to the incident, injury and surroundings.

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Immediate medical attention, special treatment	: Treat symptomatically.	

# **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. Reclaim liquid directly or in an absorbent. Soak up residue with an absorbent such as clay, sand or othe suitable material and dispose of properly.	۶r
Additional advice	<ul> <li>For guidance on selection of personal protective equipment see Chapter 8 of this Safety Data Sheet.</li> <li>For guidance on disposal of spilled material see Chapter 13 or</li> </ul>	of
/ 15	8000010327	18
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		this Safety Data Sheet.	
SECTION 7. HANDLING AND ST	OR/	AGE	
Technical measures	:	Use local exhaust ventilation if there is vapours, mists or aerosols. Use the information in this data sheet sessment of local circumstances to he ate controls for safe handling, storage material.	as input to a risk as- Ip determine appropri-
Precautions for safe handling	:	Avoid prolonged or repeated contact v Avoid inhaling vapour and/or mists. When handling product in drums, safe worn and proper handling equipment s Properly dispose of any contaminated rials in order to prevent fires.	ty footwear should be should be used.
Avoidance of contact	:	Strong oxidising agents.	
Product Transfer	:	This material has the potential to be a Proper grounding and bonding proced during all bulk transfer operations.	
Storage			
Other data	:	Keep container tightly closed and in a place. Use properly labeled and closable cor	
		Store at ambient temperature.	
Packaging material	:	Suitable material: For containers or co steel or high density polyethylene. Unsuitable material: PVC.	ntainer linings, use mild
Container Advice	:	Polyethylene containers should not be peratures because of possible risk of o	

# 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
		(Mist)	5 mg/m3	OSHA_TRA NS

**Biological occupational exposure limits** 

No biological limit allocated.

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#### **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.

Ensure appropriate selection, testing and maintenance of equipment used to control exposure, e.g. personal protective equipment, local exhaust ventilation.

Drain down system prior to equipment break-in or maintenance.

Retain drain downs in sealed storage pending disposal or subsequent recycle.

Always observe good personal hygiene measures, such as washing hands after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

tions to a level which is adequate to protect worker health,

#### Personal protective equipment

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 concentra-

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rsion 2.2       Revision Date: 04/01/2016       Print Date: 04/02/201         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 the combination of organic gases and vapours [Type A/Type P boiling point >65°C (149°F)].         Hand protection       *         Remarks       *         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 inflie rubber subsce e.g. frequency and durability of a glove is dependent on usage, e.g. frequency and durability of a glove is dependent on usage, e.g. frequency and durability of a glove 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 thoroughy. Application of a non-perfumed moisturizer is recommended lows with breakthrough time of more than 240 minutes withe preference for > 480 minutes withe suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time may be acceptable so long as appropriate maintenance and replacement regimes are followed. Glove material. Glove thickness is not depending on the glove make and model.         Eye protection       :       Skin protection is not ordinarily required beyond standard work clothes. It is good practice to wear chemical resistant gloves. It is good practice to weare chemical resistant gloves.			
<ul> <li>clific 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.</li> <li>Select a filter suitable for the combination of organic gases and vapours [Type A/Type P boiling point &gt;65°C (149°F)].</li> <li>Hand protection</li> <li>Remarks</li> <li>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 chenical protection. PVC, neoprene or nitrile rubber gloves Suitability and durability of a glove is dependent on usage, e.g. frequency and durability of a glove is dependent on usage, e.g. frequency and durability of a glove side pendent on 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. For continuous contact we recommend gloves with break-through time of more than 240 minutes with preference for &gt; 480 minutes where suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time maybe acceptable so long as appropriate maintenance and replacement regimes are followed. Glove thickness is should be typically greater than 0.35 mm depending on the glove make and model.</li> <li>Eye protection</li> <li>If material is handled such that it could be splashed into eyes protective eyewear is recommended.</li> <li>Skin and body protection</li> <li>Skin protection is not ordinarily required beyond standard work clothes. It is good practice to wear chemical resistant gloves.</li> <li>Protective measures</li> <li>Personal protective equipment (PPE) should meet recommended for the environmental protection legislation. Avoid contaminat</li></ul>	ersion 2.2	Revision Date: 04/01/2016	Print Date: 04/02/2016
Remarks: 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 re- sistance of glove material, dexterity. Always seek advice from 		cific conditions of use and mee Check with respiratory protecti Where air-filtering respirators a priate combination of mask an Select a filter suitable for the c	eting relevant legislation. ive equipment suppliers. are suitable, select an appro- d filter. combination of organic gases
Remarks: 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 durability of a glove is dependent on gloves suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical re- sistance of glove material, dexterity. Always seek advice from gloves, hands should be worn on clean hands. After using gloves, hands should be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Appli- cation of a non-perfumed moisturizer is recommended. For continuous contact we recommend gloves with break- through time of more than 240 minutes with preference for > 480 minutes where suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time maybe acceptable so long as appropriate maintenance and replacement regimes are followed. Glove thickness is no a good predictor of glove resistance to a chemical as it is dependent on the exact composition of the glove material. Glove thickness should be typically greater than 0.35 mm depending on the glove make and model.Eye protection:If material is handled such that it could be splashed into eyes protective eyewar is recommended.Skin and body protection:Personal protective equipment (PPE) should meet recom- mended national standards. Check with PPE suppliers.Environmental exposure controls:Take appropriate measures to fulfill the requirements of rele- 	Hand protection		
protective eyewear is recommended.         Skin and body protection       Skin protection is not ordinarily required beyond standard work clothes. It is good practice to wear chemical resistant gloves.         Protective measures       Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.         Environmental exposure controls       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 discharge 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		gloves approved to relevant st US: F739) made from the follo suitable chemical protection. F gloves Suitability and durability usage, e.g. frequency and dura sistance of glove material, dex glove suppliers. Contaminated Personal hygiene is a key eler Gloves must only be worn on or gloves, hands should be wash cation of a non-perfumed mois For continuous contact we rec through time of more than 240 480 minutes where suitable gloves may not be available and in th time maybe acceptable so long and replacement regimes are a good predictor of glove resis dependent on the exact compo Glove thickness should be typ	andards (e.g. Europe: EN374, wing materials may provide PVC, neoprene or nitrile rubber y of a glove is dependent on ation of contact, chemical re- sterity. Always seek advice from a gloves should be replaced. ment of effective hand care. clean hands. After using ued and dried thoroughly. Appli- sturizer is recommended. commend gloves with break- onwend gloves with break- onwend gloves with break- oves can be identified. For re recommend the same, but offering this level of protection is case a lower breakthrough g as appropriate maintenance followed. Glove thickness is not stance to a chemical as it is osition of the glove material. ically greater than 0.35 mm
work clothes.       It is good practice to wear chemical resistant gloves.         Protective measures       : Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.         Environmental exposure controls       : 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 discharge 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	Eye protection		
mended national standards. Check with PPE suppliers.         Environmental exposure controls         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	Skin and body protection	work clothes.	
General advice : Take appropriate measures to fulfill the requirements of rele- vant environmental protection legislation. Avoid contamination of the environment by following advice given in Chapter 6. If necessary, prevent undissolved material from being dis- charged 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	Protective measures		
vant environmental protection legislation. Avoid contamination of the environment by following advice given in Chapter 6. If necessary, prevent undissolved material from being dis- charged 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	Environmental exposure of	controls	
· ·	General advice	vant environmental protection of the environment by following necessary, prevent undissolve charged to waste water. Waste municipal or industrial waste w discharge to surface water. Local guidelines on emission li must be observed for the disch	legislation. Avoid contamination g advice given in Chapter 6. If ed material from being dis- e water should be treated in a vater treatment plant before imits for volatile substances

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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 °FMethod: ASTM D97
Initial boiling point and boiling range	: > 280 °C / 536 °Festimated value(s)
Flash point	: 97 °C / 207 °F Method: ASTM D93 (PMCC)
Evaporation rate	: Data not available
Flammability (solid, gas)	: Data not available
Upper explosion limit	: Typical 10 %(V)
Lower explosion limit	: Typical 1 %(V)
Vapour pressure	: < 0.5 Pa (20 °C / 68 °F) estimated value(s)
Relative vapour density	: > 1estimated value(s)
Relative density	: 0.885 (15 °C / 59 °F)
Density	: 885 kg/m3 (15.0 °C / 59.0 °F) Method: Unspecified
Solubility(ies) Water solubility	: negligible
Solubility in other solvents	: Data not available
Partition coefficient: n- octanol/water	: Pow: > 6(based on information on similar products)
Auto-ignition temperature	: > 320 °C / 608 °F
Viscosity Viscosity, dynamic	: Data not available

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Viscosity, kinematic	: 59 mm2/s (40.0 °C / 104.0 °F) Method: ASTM D445	
	9.37 mm2/s (100 °C / 212 °F) Method: ASTM D445	
Explosive properties	: Not classified	
Oxidizing properties	: Data not available	
Conductivity	: This material is not expected to b	be a static accumulator.
Decomposition temperature	: Data not available	

# 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.
Possibility of hazardous reac- tions	: Reacts with strong oxidising agents.
Conditions to avoid	: Extremes of temperature and direct sunlight.
Incompatible materials	: Strong oxidising agents.
Hazardous decomposition products	: Hazardous decomposition products are not expected to form during normal 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(c)
		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:

<u>i iouuci.</u>	
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 under normal conditions of use.
Acute dermal toxicity	: LD50 (Rabbit): > 5,000 mg/kg
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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.

## Respiratory or skin sensitisation

#### Product:

Remarks: Not expected to be a skin sensitiser.

#### Germ cell mutagenicity

#### Product:

: 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).

n	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.	
	Confirmed animal carcinogen with unknown relevand nans	ce to hu-
	listillates (petroleum), hy- rotreated light	64742-47-8
	Distillates (petroleum), hy- Irotreated light	64742-47-8
e	lo component of this product present at levels great qual to 0.1% is identified as a carcinogen or potenti en by OSHA.	
e	lo component of this product present at levels great qual to 0.1% is identified as a known or anticipated y NTP.	

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# **Reproductive toxicity**

## Product:

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.

Remarks: Continuous contact with used engine oils has caused skin cancer in animal tests.

Remarks: Slightly irritating to respiratory system.

## **SECTION 12. ECOLOGICAL INFORMATION**

Basis for assessment	<ul> <li>Ecotoxicological data have not been determined specifically for this product.</li> <li>Information given is based on a knowledge of the components and the ecotoxicology of similar products.</li> <li>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).</li> </ul>
Ecotoxicity	
<u>Product:</u> Toxicity to fish (Acute toxici- ty)	: Remarks: Expected to be practically non toxic:

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	LL/E	L/IL50 > 100 mg/l	
Toxicity to daphnia and other aquatic invertebrates (Acute toxicity)		arks: Expected to be prac L/IL50 > 100 mg/l	tically non toxic:
Toxicity to algae (Acute tox- icity)		arks: Expected to be prac L/IL50 > 100 mg/l	tically non toxic:
Toxicity to fish (Chronic tox- icity)	: Rem	arks: Data not available	
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	: Rem	arks: Data not available	
Toxicity to bacteria (Acute toxicity)	: Rem	arks: Data not available	
Persistence and degradabili	ty		
Product:			
Biodegradability	Majo	but contains components t	eadily biodegradable. In to be inherently biodegra Inat may persist in the envir
Bioaccumulative potential			
Product: Bioaccumulation		arks: Contains componen ulate.	ts with the potential to bioad
Mobility in soil			
Product:			
Mobility			nvironmental conditions. soil particles and will not be
	Rem	arks: Floats on water.	
Other adverse effects no data available			
Product:			
Additional ecological infor- mation	expe Not e	ected to be released to air	atile components, which are in any significant quantities epletion potential, photoche global warming potential.
		ly soluble mixture. cause physical fouling of a	

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Mineral oil is not expected to cause any chronic effects to aquatic organisms at concentrations less than 1 mg/l.

## **SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal methods	
Waste from residues :	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.
	Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or na- tional requirements and must be complied with.
Contaminated packaging :	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.

## **SECTION 14. TRANSPORT INFORMATION**

#### **National Regulations**

### US Department of Transportation Classification (49 CFR Parts 171-180)

Not regulated as a dangerous good

## International Regulation

#### 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

Pollution category Ship type Product name Special precautions	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>
Special precautions for user	: Not applicable

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.

Additional Information : MARPOL Annex 1 rules apply for bulk shipments by sea.

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#### SECTION 15. REGULATORY INFORMATION

#### OSHA Hazards : No OSHA Hazards

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

#### **CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Xylene, Mixed Isomers	1330-20-7	100	*
Ethylbenzene	100-41-4	1000	*
Ethylbenzene	100-41-4	100	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

#### **CERCLA Reportable Quantity**

Calculated RQ exceeds reasonably attainable upper limit.

#### **CERCLA Reportable Quantity**

Calculated RQ exceeds reasonably attainable upper limit., Shell classifies this material as an "oil" under the CERCLA Petroleum Exclusion, therefore releases to the environment are not reportable under CERCLA., The components with RQs are given for information.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

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

SARA 311/312 Hazards	:	No SARA Hazards
SARA 302	:	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### Clean Water Act

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

Xylene, mixed isomers	1330-20-7	0.04 %
Ethylbenzene	100-41-4	0.007 %

Pennsylvania Right To Know		
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	
distillates (petroleum), hydrotreated light	64742-47-8	
Distillates (petroleum), hydrotreated light	64742-47-8	
White mineral oil (petroleum)	8042-47-5	
Xylene, mixed isomers	1330-20-7	

California Prop 65	WARNING! This product contains a chemical known to the
-	State of California to cause cancer.

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

EINECS : All components listed or polymer exempt.

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Version 2.2	Revision Date: 04/01/2016	Print Date: 04/02/2016
TSCA	: All components listed.	
DSL	: All components listed.	

# **SECTION 16. OTHER INFORMATION**

### Further information

NFPA Rating (Health, Fire, Reac- 0, 1, 0 tivity)

A vertical bar (|) in the left margin indicates an amendment from the previous version.

1	15		800001032718
<u> </u>	15	COC = Cleveland Open-Cup DIN = Deutsches Institut fur Normung DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level DSL = Canada Domestic Substance List EC = European Commission EC50 = Effective Concentration fifty ECETOC = European Center on Ecotoxicology gy Of Chemicals ECHA = European Chemicals Agency EINECS = The European Inventory of Existing O Chemical Substances EL50 = Effective Loading fifty ENCS = Japanese Existing and New Chemical Inventory EWC = European Waste Code GHS = Globally Harmonised System of Classific Labelling of Chemicals IARC = International Agency for Research on O IATA = International Air Transport Association IC50 = Inhibitory Concentration fifty IL50 = Inhibitory Level fifty IMDG = International Maritime Dangerous Good INV = Chinese Chemicals Inventory IP346 = Institute of Petroleum test method N° determination of polycyclic aromatics DMSO-ex KECI = Korea Existing Chemicals Inventory	Commercial Substances cation and cancer ds 346 for the tractables
		BEL = Biological exposure limits BTEX = Benzene, Toluene, Ethylbenzene, Xyle CAS = Chemical Abstracts Service CEFIC = European Chemical Industry Council CLP = Classification Packaging and Labelling COC = Cleveland Open-Cup DIN = Deutsches Institut fur Normung DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level DNEL = Derived No Effect Level DSL = Canada Domestic Substance List EC = European Commission EC50 = Effective Concentration fifty ECETOC = European Center on Ecotoxicology gy Of Chemicals ECHA = European Chemicals Agency	enes and Toxicolo-
		ACGIH = American Conference of Government Hygienists ADR = European Agreement concerning the Int Carriage of Dangerous Goods by Road AICS = Australian Inventory of Chemical Substa ASTM = American Society for Testing and Mate	ernational
		The standard abbreviations and acronyms used ment can be looked up in reference literature (e dictionaries) and/or websites.	l in this docu-

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Version 2.2	Revision Date: 04/01/2016	Print Date: 04/02/2016
	LC50 = Lethal Concentration fifty LD50 = Lethal Dose fifty per cen LL/EL/IL = Lethal Loading/Effect LL50 = Lethal Loading fifty MARPOL = International Conver Pollution From Ships NOEC/NOEL = No Observed Eff served Effect Level OE_HPV = Occupational Expose PBT = Persistent, Bioaccumulati PICCS = Philippine Inventory of Substances PNEC = Predicted No Effect Con REACH = Registration Evaluation Chemicals RID = Regulations Relating to Im gerous Goods by Rail SKIN_DES = Skin Designation STEL = Short term exposure lim TRA = Targeted Risk Assessme TSCA = US Toxic Substances C TWA = Time-Weighted Average vPvB = very Persistent and very	it. tive Loading/Inhibitory loading ntion for the Prevention of fect Concentration / No Ob- ure - High Production Volume ive and Toxic Chemicals and Chemical ncentration on And Authorisation Of nternational Carriage of Dan- nt Control Act
Revision Date	: 04/01/2016	

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.