According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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SECTION 1. IDENTIFICATION		
Product name	: Shell Rotella T3 Fleet 15W-40	
Product code	: 001F8881	
Manufacturer or supplier's	details	
Manufacturer/Supplier	: Shell Oil Products US PO Box 4427 Houston TX 77210-4427 USA	
SDS Request Customer Service	: (+1) 877-276-7285 :	
Emergency telephone num	ber	
Spill Information	: 877-504-9351	
Health Information	: 877-242-7400	
Recommended use of the c	hemical and restrictions on use	
Recommended use	: Engine oil.	

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: 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.

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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.

* 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	Synonyms	CAS-No.	Concentration (%)
Alkylated phenol ester		125643-61-0	1 - 5
Alkaryl amine		36878-20-3	1 - 3
Zinc dialkyldithiophosphate	Phosphorodithioic acid, mixed O,O- bis(sec-Bu and iso- octyl) esters, zinc salts	113706-15-3	1 - 2.4
Interchangeable low vis- cosity 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 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. Remove contact lenses, if present and easy to do. Continue rinsing. If persistent irritation occurs, obtain medical attention.
If swallowed	: In general no treatment is necessary unless large quantities are swallowed, however, get medical advice.

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Most important symptoms and effects, both acute and delayed	: Oil acne/folliculitis signs and syn of black pustules and spots on th Ingestion may result in nausea,	he skin of exposed areas.
Protection of first-aiders	: When administering first aid, ens appropriate personal protective incident, injury and surroundings	equipment according to the
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. 	
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Soak up residue with an absorbent such as clay, sand or ot suitable material and dispose of properly. Additional advice : For guidance on selection of personal protective equipment see Chapter 8 of this Safety Data Sheet. For guidance on disposal of spilled material see Chapter 13 this Safety Data Sheet. SECTION 7. HANDLING AND STORAGE Technical measures : Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropri ate controls 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 worm and proper handling equipment should be used. Properly dispose of any contaminated rags or cleaning materials in order to prevent fires. Avoidance of contact : Strong oxidising agents. Product Transfer : This material has the potential to be a static accumulator. Proper grounding and bonding procedures should be used during all bulk transfer operations. Storage : Keep container tightly closed and in a cool, well-ventilated place. Use properly labeled and closable containers. Store at ambient temperature. Packaging material : Suitable material: For containers or container linings, use m			
Additional advice For guidance on selection of personal protective equipment see Chapter 8 of this Safety Data Sheet. For guidance on disposal of spilled material see Chapter 13 this Safety Data Sheet. SECTION 7. HANDLING AND STORAGE Technical measures : Use local exhaust ventiliation if there is risk of inhalation of vapours, mists or aerosols. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropri ate 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 used. Properly dispose of any contaminated rags or cleaning materials in order to prevent fires. Avoidance of contact : Strong oxidising agents. Product Transfer : This material has the potential to be a static accumulator. Proper grounding and bonding procedures should be used during all bulk transfer operations. Storage : Keep container tightly closed and in a cool, well-ventilated place. Use properly labeled and closable containers. Store at ambient temperature. Packaging material : Suitable material: For containers or container linings, use m	Version 1.1	Revision Date: 01/17/2017	Print Date: 01/24/2017
see Chapter 8 of this Safety Data Sheet. For guidance on disposal of spilled material see Chapter 13 this Safety Data Sheet. SECTION 7. HANDLING AND STORAGE Technical measures : Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling. 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. Properly dispose of any contaminated rags or cleaning materials in order to prevent fires. Avoidance of contact : Strong oxidising agents. Product Transfer : This material has the potential to be a static accumulator. Proper grounding and bonding procedures should be used during all bulk transfer operations. Storage : Keep container tightly closed and in a cool, well-ventilated place. Use properly labeled and closable containers. Store at ambient temperature. Packaging material : Suitable material: For containers or container linings, use m			
Technical measures : Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols. 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. Properly dispose of any contaminated rags or cleaning materials in order to prevent fires. Avoidance of contact : Strong oxidising agents. Product Transfer : This material has the potential to be a static accumulator. Proper grounding and bonding procedures should be used during all bulk transfer operations. Storage : Keep container tightly closed and in a cool, well-ventilated place. Use properly labeled and closable containers. Store at ambient temperature. Packaging material : Suitable material: For containers or container linings, use m	Additional advice	see Chapter 8 of this Safety D For guidance on disposal of sp	ata Sheet.
 vapours, mists or aerosols. 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. Properly dispose of any contaminated rags or cleaning materials in order to prevent fires. Avoidance of contact Strong oxidising agents. Product Transfer This material has the potential to be a static accumulator. Proper grounding and bonding procedures should be used during all bulk transfer operations. Storage Keep container tightly closed and in a cool, well-ventilated place. Use properly labeled and closable containers. Store at ambient temperature. Packaging material Suitable material: For containers or container linings, use m 	SECTION 7. HANDLING AND STO	ORAGE	
Avoid inhaling vapour and/or mists. When handling product in drums, safety footwear should be worn and proper handling equipment should be used. Properly dispose of any contaminated rags or cleaning materials in order to prevent fires. Avoidance of contact : Strong oxidising agents. Product Transfer : This material has the potential to be a static accumulator. Proper grounding and bonding procedures should be used during all bulk transfer operations. Storage : Keep container tightly closed and in a cool, well-ventilated place. Use properly labeled and closable containers. : Store at ambient temperature. Packaging material : Suitable material: For containers or container linings, use m	Technical measures	vapours, mists or aerosols. Use the information in this data sessment of local circumstanc ate controls for safe handling,	a sheet as input to a risk as- ses to help determine appropri-
Product Transfer : This material has the potential to be a static accumulator. Proper grounding and bonding procedures should be used during all bulk transfer operations. Storage : Keep container tightly closed and in a cool, well-ventilated place. Use properly labeled and closable containers. Store at ambient temperature. Packaging material : Suitable material: For containers or container linings, use m	Precautions for safe handling	Avoid inhaling vapour and/or r When handling product in drur worn and proper handling equ Properly dispose of any contai	nists. ms, safety footwear should be ipment should be used.
Proper grounding and bonding procedures should be used during all bulk transfer operations. Storage Other data : Keep container tightly closed and in a cool, well-ventilated place. Use properly labeled and closable containers. Store at ambient temperature. : Suitable material: For containers or container linings, use m	Avoidance of contact	: Strong oxidising agents.	
Other data : Keep container tightly closed and in a cool, well-ventilated place. Use properly labeled and closable containers. Store at ambient temperature. : Suitable material: For containers or container linings, use m	Product Transfer	Proper grounding and bonding	g procedures should be used
Packaging material : Suitable material: For containers or container linings, use m		place.	
		Store at ambient temperature.	
Unsuitable material: PVC.	Packaging material	steel or high density polyethyle	
Container Advice : Polyethylene containers should not be exposed to high tem- peratures because of possible risk of distortion.	Container Advice		

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components with workplace control parameters

Components CAS-No. Value type Control parame-Basis			Components	CAS-No.	Value type (Form of	Control parame- ters / Permissible	Basis
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		exposure)	concentration	
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
		TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Inhal- able fraction)	5 mg/m3	ACGIH

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.

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,

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Version 1.1 Revision Date: 01/17/2017 Print Date: 01/24/2017 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. 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 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 the combination of organic gases and vapours [Type A/Type P boiling point >65°C (149°F)]. Hand protection Where hand contact with the product may occur the use of Remarks 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, 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. For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified. For short-term/splash protection we recommend the same, but recognize that 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 not 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 eyewear is recommended. : Skin protection is not ordinarily required beyond standard Skin and body protection work clothes. It is good practice to wear chemical resistant gloves. Thermal hazards : Not applicable

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Protective measures	: Personal protective equipment (F mended national standards. Che	
Environmental exposure co	ontrols	
General advice	: Take appropriate measures to fur vant environmental protection leg of the environment by following a necessary, prevent undissolved charged to waste water. Waste v municipal or industrial waste wate discharge to surface water. Local guidelines on emission lim must be observed for the dischar vapour.	gislation. Avoid contamination advice given in Chapter 6. If material from being dis- vater should be treated in a er treatment plant before its for volatile substances

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	amber
Odour	:	Slight hydrocarbon
Odour Threshold	:	Data not available
рН	:	Not applicable
pour point	:	-35 °C / -31 °FMethod: ASTM D5950
Initial boiling point and boiling range	:	> 280 °C / 536 °Festimated value(s)
Flash point	:	236 °C / 457 °F Method: ASTM D92 (COC)
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	:	0.876 (15 °C / 59 °F)
Density	:	876 kg/m3 (15.0 °C / 59.0 °F) Method: ASTM D4052

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: negligible	
: Data not available	
: Pow: > 6(based on information of	on similar products)
: > 320 °C / 608 °F	
: Data not available	
: 115 mm2/s (40.0 °C / 104.0 °F) Method: ASTM D445	
15.3 mm2/s (100 °C / 212 °F) Method: ASTM D445	
: Not classified	
: Data not available	
: This material is not expected to	be a static accumulator.
: Data not available	
	 : negligible : Data not available : Pow: > 6(based on information of 320 °C / 608 °F : Data not available : 115 mm2/s (40.0 °C / 104.0 °F) Method: ASTM D445 : 15.3 mm2/s (100 °C / 212 °F) Method: ASTM D445 : Not classified : Data not available : This material is not expected to

SECTION 10. STABILITY AND REACTIVITY

Reactivity	he product does not pose any further r ddition to those listed in the following s	
Chemical stability	table.	
Possibility of hazardous reac- tions	eacts with strong oxidising agents.	
Conditions to avoid	xtremes of temperature and direct sun	light.
Incompatible materials	trong oxidising agents.	
Hazardous decomposition products	azardous decomposition products are uring normal storage.	not expected to form

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,

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the data presented is representative of the product as a whole, rather than for individual component(s).		
Information on likely route Skin and eye contact are the accidental ingestion.	es of exposure e primary routes of exposure although	exposure may occur following
Acute toxicity		
Product:		
Acute oral toxicity	: LD50 (rat): > 5,000 mg/kg Remarks: Expected to be of lov	v toxicity:
Acute inhalation toxicity	: Remarks: Not considered to be normal conditions of use.	an inhalation hazard under
Acute dermal toxicity	: LD50 (Rabbit): > 5,000 mg/kg Remarks: Expected to be of lov	v 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.

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).

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IARC	No component of this product pres equal to 0.1% is identified as proba human carcinogen by IARC.	
ACGIH	No component of this product pres equal to 0.1% is identified as a care gen by ACGIH.	
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.	
NTP	No component of this product pres equal to 0.1% is identified as a kno by NTP.	
Reproductive toxicity		
Product:		
	Remarks: Not expected to impai	ir 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.

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SECTION 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. 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).
:	Remarks: Expected to be practically non toxic: LL/EL/IL50 > 100 mg/l
:	Remarks: Expected to be practically non toxic: LL/EL/IL50 > 100 mg/l
:	Remarks: Expected to be practically non toxic: LL/EL/IL50 > 100 mg/l
:	Remarks: Data not available
:	Remarks: Data not available
:	Remarks: Data not available
y	
:	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.
:	Remarks: Contains components with the potential to bioac- cumulate.
:	Remarks: Liquid under most environmental conditions.
	: : : : : : : : y :

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	If it enters soil, it will adsorb to so mobile.	il particles and will not be
	Remarks: Floats on water.	
Other adverse effects no data available		
Product:		
Additional ecological infor- mation	 Product is a mixture of non-volati expected to be released to air in Not expected to have ozone depl cal ozone creation potential or glo 	any significant quantities. etion potential, photochemi-
	Poorly soluble mixture. May cause physical fouling of aqu	uatic organisms.

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	 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
	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 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.
Local legislation Remarks	Disposal should be in accordance with applicable regional, national, and local laws and regulations.

SECTION 14. TRANSPORT INFORMATION

National Regulations

International Regulations

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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code			
Pollution category Ship type Product name Special precautions	 Not applicable Not applicable Not applicable Not applicable 		
Special precautions for user			
Remarks	: Special Precautions: Refer to C for special precautions which a needs to comply with in connec	user needs to be aware of or	
Additional Information	: MARPOL Annex 1 rules apply f	or bulk shipments by sea.	

SECTION 15. REGULATORY INFORMATION

OSHA Hazards	No OSHA Hazards
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EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Ethylenediamine	107-15-3	5000	*
Fumaric acid	110-17-8	5000	*
Ethylene Glycol	107-21-1	5000	*
Benzene	71-43-2	10	*
Toluene	108-88-3	1000	*
Toluene	108-88-3	100	*
Toluene	108-88-3	1000	*
Toluene	108-88-3	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

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
Ethylenediamine	107-15-3	5000	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 311/312 Hazards : No SARA Hazards

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SARA 302	:	The following components are subject to reporting levels es- tablished by SARA Title III, Section 302:		
		Ethylenediamine	107-15-3	0.1554 %
SARA 313	:	The following components a tablished by SARA Title III, \$		rting levels es-
		Zinc dialkyldithiophosphate	113706-15-3	1.5684 %
Clean Water A	ct			
The following H 117.3:	lazardous Chemica	als are listed under the U.S. (CleanWater Act, S	ection 311, Table
	lenediamine	107-15-3	0.1554 %	
	aric acid	110-17-8	0.1554 %	
tolu		108-88-3	0.0002 %	
	zene	71-43-2	0.0002 %	
Pennsylvania Right To Know				
	heavy paraffinic	eum), solvent-dewaxed	64742-65-0	
	Ethylenediamine		107-15-3	
	fumaric acid		110-17-8	
	diphenylamine		122-39-4	
	Ethanediol		107-21-1	
New Jersey Ri	ight To Know			
	Zinc dialkyldithio	phosphate	113706-15-3	
California Prop 65		WARNING! This product contains a chemical known to the State of California to cause cancer. WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.		
The component EINECS	-	t are reported in the followic All components listed or poly	-	
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.
 Abbreviations and Acronyms

 The standard abbreviations and acronyms used in this document can be looked up in reference literature (e.g. scientific dictionaries) and/or websites.

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

ersion 1.1	Revision Date: 01/17/2017	Print Date: 01/24/201	
	ACGIH = American Conference Hygienists	of Governmental Industrial	
		ncerning the International	
		ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road	
	AICS = Australian Inventory of (
	ASTM = American Society for T		
	BEL = Biological exposure limits		
	BTEX = Benzene, Toluene, Eth		
	CAS = Chemical Abstracts Serv	vice	
	CEFIC = European Chemical In		
	CLP = Classification Packaging	and Labelling	
	COC = Cleveland Open-Cup		
	DIN = Deutsches Institut fur No		
	DMEL = Derived Minimal Effect		
	DNEL = Derived No Effect Leve		
	DSL = Canada Domestic Subst		
	EC = European Commission EC50 = Effective Concentration	fifty	
	ECETOC = European Center of		
	gy Of Chemicals		
	ECHA = European Chemicals A	aencv	
	EINECS = The European Inven		
	Chemical Substances	, , , , , , , , , , , , , , , , , , , ,	
	EL50 = Effective Loading fifty		
	ENCS = Japanese Existing and	New Chemical Substances	
	Inventory		
	EWC = European Waste Code		
	GHS = Globally Harmonised Sy	stem of Classification and	
	Labelling of Chemicals		
	IARC = International Agency for		
	IATA = International Air Transpo		
	IC50 = Inhibitory Concentration	iiity	
	IL50 = Inhibitory Level fifty IMDG = International Maritime I	Dangerous Goods	
	INV = Chinese Chemicals Inver		
	IP346 = Institute of Petroleum		
	determination of polycyclic aron		
	KECI = Korea Existing Chemica		
	LC50 = Lethal Concentration fif		
	LD50 = Lethal Dose fifty per cer	nt.	
	LL/EL/IL = Lethal Loading/Effec	tive Loading/Inhibitory loadin	
	LL50 = Lethal Loading fifty		
	MARPOL = International Conve	ntion for the Prevention of	
	Pollution From Ships		
	NOEC/NOEL = No Observed E	ffect Concentration / No Ob-	
	served Effect Level		
	OE_HPV = Occupational Expos		
	PBT = Persistent, Bioaccumula PICCS = Philippine Inventory of		
	PICCS = Philippine Inventory of Substances		
	PNEC = Predicted No Effect Co	ncentration	
	REACH = Registration Evaluation		
	Chemicals		
	RID = Regulations Relating to I	nternational Carriage of Dan-	
	gerous Goods by Rail	earnage of Duri	

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	SKIN_DES = Skin Designation STEL = Short term exposure limit TRA = Targeted Risk Assessmer TSCA = US Toxic Substances Co TWA = Time-Weighted Average vPvB = very Persistent and very	nt ontrol Act
Revision Date	: 01/17/2017	

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.