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SECTION	1. IDENTIFICATION				
Produ	ct name	:	Shell Rotella ELC	Nitrite Free Pre-Diluted 50/50	
Produ	ct code	:	001F1652		
Manu	facturer or supplier's o	deta	ails		
Manuf	acturer/Supplier	:	Shell Canada Pro 400 - 4th Avenue Calgary AB T2P Canada	S.W	
Telepł Telefa		:	(+1) 8006611600 (+1) 4033848345		
Emerç ber	gency telephone num-	:	UTEC (226-8832)	): (+1) 613-996-6666; Toll Free: 1-888-CAN- hr): 1 (703) 527-3887 or 1 (800) 424-9300	

## Recommended use of the chemical and restrictions on use

Recommended use	: Antifreeze and coolant.

## SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Acute toxicity (Oral)	: Category 4
Specific target organ toxicity - repeated exposure	: Category 2 (Kidney)
GHS label elements	
Hazard pictograms	
Signal word	: Warning
Hazard statements	<ul> <li>PHYSICAL HAZARDS:</li> <li>Not classified as a physical hazard under GHS criteria.</li> <li>HEALTH HAZARDS:</li> <li>H302 Harmful if swallowed.</li> </ul>
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		peated exposu ENVIRONMEN	se damage to organs through prolonged or re- re if swallowed. ITAL HAZARDS: as an environmental hazard under GHS criteria.
Preca	autionary statements	P270 Do not ea <b>Response:</b> P301 + P312 II if you feel unwe P330 Rinse mo <b>Storage:</b> No precaution <b>Disposal:</b>	buth.

Hazardous components which must be listed on the label: Contains ethanediol. Contains bittering agent. **Other hazards which do not result in classification** Intentional abuse, misuse or other massive exposure may cause multiple organ damage and or

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	: Mixture
Substance name	: Shell Rotella ELC Nitrite Free Pre-Diluted 50/50
Chemical nature	: Mixture of ethylene glycol, water and additives.

#### Hazardous components

death.

Chemical name	CAS-No.	Concentration (% w/w)
Diethylene glycol	111-46-6	1 - 3
Ethanediol	107-21-1	40 - 60

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

General advice	: DO NOT DELAY. Keep victim calm. Obtain medical treatment immediately.
If inhaled	: Remove to fresh air. If rapid recovery does not occur, transport to nearest medical facility for additional treatment.
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.

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In case of eye contact		Remove contact rinsing.	copious quantities of water. ct lenses, if present and easy to do. Continue tation occurs, obtain medical attention.	
If swallowed		If swallowed, d medical facility	DO NOT DELAY. If swallowed, do not induce vomiting: transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Rinse mouth.	
Most important symptoms and effects, both acute and delayed		increased or de can include na lumbar pain sh death. High concentra pression result	<ul> <li>Kidney toxicity may be recognized by blood in the urine or increased or decreased urine flow. Other signs and symptoms can include nausea, vomiting, abdominal cramps, diarrhoea, lumbar pain shortly after ingestion, and possibly narcosis and death.</li> <li>High concentrations may cause central nervous system de- pression resulting in headaches, dizziness and nausea; con- tinued inhalation may result in unconsciousness and/or death.</li> </ul>	
Prote	ction of first-aiders	appropriate per	ering first aid, ensure that you are wearing the rsonal protective equipment according to the and surroundings.	
Notes	s to physician	The preferred to ical facility and administration gastric aspiration able and a dela such medical a may be approp there are any s sidered on a ca Specific other to	REATMENT IS EXTREMELY IMPORTANT! reatment is immediate transportation to a med- use of appropriate treatment including possible of activated charcoal, gastric lavage and or on. If none of the above are immediately avail- ay of more than one hour is anticipated before ttention can be obtained, induction of vomiting viate using IPECAC syrup (Contraindicated if igns of CNS depression). This should be con- ase by case basis following specialist advice. reatments may include ethanol therapy, fomep- t of acidosis and haemodialysis. Seek specialist delay.	

## SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	: Foam, water spray or fog. Dry chemical powder, carbon dio ide, sand or earth may be used for small fires only.	ox-
Unsuitable extinguishing media	: Do not use water in a jet.	
Specific hazards during fire- fighting	<ul> <li>Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates a gases (smoke).</li> <li>Carbon monoxide may be evolved if incomplete combustion occurs.</li> <li>Unidentified organic and inorganic compounds.</li> </ul>	

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ods Spe	cific extinguishing meth- cial protective equipment irefighters	<ul> <li>cumstances and</li> <li>Proper protective gloves are to be large contact wit Breathing Appar a confined space</li> </ul>	ng measures that are appropriate to local cir- I the surrounding environment. e equipment including chemical resistant worn; chemical resistant suit is indicated if th spilled product is expected. Self-Contained ratus must be worn when approaching a fire in e. Select fire fighter's clothing approved to rds (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	:	Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	:	For large liquid spills (> 1 drum), transfer by mechanical means such as vacuum truck to a salvage tank for recovery or safe disposal. Do not flush away residues with water. Retain as contaminated waste. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely
		For small liquid spills (< 1 drum), transfer by mechanical means to a labeled, sealable container for product recovery or safe disposal. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely.
Additional advice	:	For guidance on selection of personal protective equipment see Section 8 of this Safety Data Sheet. For guidance on disposal of spilled material see Section 13 of this Safety Data Sheet.
		Local authorities should be advised if significant spillages cannot be contained.

## SECTION 7. HANDLING AND STORAGE

General Precautions : Use local exhaust ventilation if there is risk vapours, mists or aerosols. Use the information in this data sheet as inp sessment of local circumstances to help de ate controls for safe handling, storage and o material.	put to a risk as- termine appropri-
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Advice on safe handling		<ul> <li>Avoid prolonged or repeated contact with skin.</li> <li>Avoid inhaling vapour and/or mists.</li> <li>When handling product in drums, safety footwear should be worn and proper handling equipment should be used.</li> <li>Properly dispose of any contaminated rags or cleaning materials in order to prevent fires.</li> </ul>			
Avoidance of contact		: Strong oxidis	: Strong oxidising agents.		
Stora	age				
Othe	r data	place. Use properly	er tightly closed and in a cool, well-ventilated labeled and closable containers. ent temperature.		
Pack	aging material	steel or high	erial: For containers or container linings, use mild density polyethylene. aterial: Zinc., Avoid contact with galvanized ma-		
Conta	ainer Advice		containers should not be exposed to high tem- cause of possible risk of distortion.		

## 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
Ethanediol	107-21-1	TWA (Va- pour)	25 ppm	ACGIH
		STEL (Va- pour)	50 ppm	ACGIH
		STEL (Inhal- able fraction, Aerosol only)	10 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.

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tact th Nation ods h Occup http:// Health es htt Institu http://	he supplier. Further nat nal Institute of Occupat ttp://www.cdc.gov/nios pational Safety and He www.osha.gov/ h and Safety Executive p://www.hse.gov.uk/ ut für Arbeitsschutz Deu www.dguv.de/inhalt/ind	ional methods may be ional Safety and Healt h/ alth Administration (OS (HSE), UK: Methods to utschen Gesetzlichen I dex.jsp	neasurement methods are given below or con- available. (NIOSH), USA: Manual of Analytical Meth- SHA), USA: Sampling and Analytical Methods for the Determination of Hazardous Substanc- Unfallversicherung (IFA), Germany IRS), France http://www.inrs.fr/accueil
Engir	neering measures	vary depending controls based o Appropriate mea	tection and types of controls necessary will upon potential exposure conditions. Select on a risk assessment of local circumstances. asures include: ation to control airborne concentrations.
			is heated, sprayed or mist formed, there is I for airborne concentrations to be generated.
		controls. Educate and tra measures releva product. Ensure appropri equipment used equipment, loca Drain down syst nance. Retain drain dow subsequent recy Always observe washing hands drinking, and/or protective equip	res for safe handling and maintenance of in workers in the hazards and control ant to normal activities associated with this fate selection, testing and maintenance of to control exposure, e.g. personal protective I exhaust ventilation. The prior to equipment break-in or mainte- which is sealed storage pending disposal or ycle. good personal hygiene measures, such as after handling the material and before eating, smoking. Routinely wash work clothing and ment to remove contaminants. Discard con- ng and footwear that cannot be cleaned.
	onal protective equip		
Respi	iratory protection	conditions of us In accordance w tions should be If engineering co tions to a level w select respirator cific conditions of	rotection is ordinarily required under normal e. vith good industrial hygiene practices, precau- taken to avoid breathing of material. ontrols do not maintain airborne concentra- vhich is adequate to protect worker health, ry protection equipment suitable for the spe- of use and meeting relevant legislation.

Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appro-

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		Select a filter su	ion of mask and filter. uitable for the combination of organic gases id particles [Type A/Type P boiling point
	d protection emarks	gloves approve US: F739) mad suitable chemic gloves Suitabilit usage, e.g. frec sistance of glov glove suppliers. Personal hygier Gloves must or gloves, hands s cation of a non- For continuous through time of 480 minutes wh short-term/splas recognize that s may not be ava time maybe acc and replacemen a good predicto dependent on th Glove thickness	ntact with the product may occur the use of d to relevant standards (e.g. Europe: EN374, e from the following materials may provide cal protection. PVC, neoprene or nitrile rubber ty and durability of a glove is dependent on guency and duration of contact, chemical re- ve material, dexterity. Always seek advice from . Contaminated gloves should be replaced. ne is a key element of effective hand care. Ny be worn on clean hands. After using should be washed and dried thoroughly. Appli- operfumed moisturizer is recommended. contact we recommend gloves with break- more than 240 minutes with preference for > here suitable gloves can be identified. For sh protection we recommend the same but suitable gloves offering this level of protection ilable and in this case a lower breakthrough ceptable so long as appropriate maintenance in regimes are followed. Glove thickness is not or of glove resistance to a chemical as it is he exact composition of the glove material. s should be typically greater than 0.35 mm he glove make and model.
Eye	protection		ndled such that it could be splashed into eyes, year is recommended.
Skin	and body protection	work clothes.	is not ordinarily required beyond standard ce to wear chemical resistant gloves.
Ther	mal hazards	: Not applicable	
Prote	ective measures		ctive equipment (PPE) should meet recom- al standards. Check with PPE suppliers.

### Environmental exposure controls

General advice	<ul> <li>Local guidelines on emission limits for volatile substances must be observed for the discharge of exhaust air containing vapour.</li> <li>Minimise release to the environment. An environmental as- sessment must be made to ensure compliance with local envi- ronmental legislation.</li> </ul>
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			Information on ac section 6.	ccidental release measures are to be found in
SECTION 9	9. PHYSICAL AND CH	ЕМІС	CAL PROPERTIE	s
Appea	rance	:	Liquid at room te	emperature.
Colour		:	red	
Odour		:	characteristic	
Odour	Threshold	:	Data not availab	le
pН		:	Not applicable	
Melting	g point/freezing point	:	-37 °C / -35 °F	
Initial b range	poiling point and boiling	:	> 100 °C / 212 ° estimated value	
Flash	point	:	Not applicable	
			Method: Unspec Not applicable	ified
Evapo	ration rate	:	Data not availab	le
Flamm	nability (solid, gas)	:	Data not availab	le
Upper	explosion limit	:	Typical 15 %(V)	
Lower	explosion limit	:	Typical 3 %(V)	
Vapou	r pressure	:	Data not availab	le
Relativ	ve vapour density	:	Data not availab	le
Relativ	ve density	:	1.075 (15.6 °C /	60.1 °F)
Densit	у	:	1,075 kg/m3 (15	.6 °C / 60.1 °F)Method: Unspecified
	lity(ies) ter solubility	:	completely solut	ble
Solu	ubility in other solvents	:	Data not availab	le
	on coefficient: n- bl/water	:	Data not availab	le
Auto-ię	gnition temperature	:	> 200 °C / 392 °	F
Decon	nposition temperature	:	Data not availab	le

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Viscosity Viscosity, dynamic Viscosity, kinematic		<ul> <li>Data not available</li> <li>Data not available</li> <li>Method: Unspecified</li> <li>Not applicable</li> </ul>		
Explosive properties		: Not classified		
Oxidizing properties		: Data not ava	ilable	
Condu	uctivity	: This materia	l is not expected to be a static accumulator.	
Molec	ular weight	: Not applicab	le	

## SECTION 10. STABILITY AND REACTIVITY

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	: No decomposition if stored and applied as directed.

# SECTION 11. TOXICOLOGICAL INFORMATION

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

## Information on likely routes of exposure

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

### Acute toxicity

## Product:

Acute oral toxicity	:	LD50 (rat): > 500 - 2,000 mg/kg Remarks: Harmful if swallowed.
Acute inhalation toxicity		LC 50 (Rat): > 5 mg/l Exposure time: 4 h Remarks: Low toxicity:

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Acute dermal toxicity	: LD50 (Rabbit): > 5,000 mg/kg
	Remarks: Low toxicity:

### Skin corrosion/irritation

### Product:

Remarks: Slightly irritating to skin. Based on available data, the classification criteria are not met.

### Serious eye damage/eye irritation

### Product:

Remarks: Slightly irritating to the eye. Based on available data, the classification criteria are not met.

### Respiratory or skin sensitisation

## Product:

Remarks: Not a skin sensitiser. Based on available data, the classification criteria are not met.

## Germ cell mutagenicity

### Product:

Genotoxicity in vivo	:	Remarks: Non mutagenic	
		Based on available data, the classification criteria are not met.	

## Carcinogenicity

## Product:

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

## **Reproductive toxicity**

## Product:

Effects on fertility

Remarks: Not a developmental toxicant. Does not impair fertility. Based on available data, the classification criteria are not met.

## STOT - single exposure

# Product:

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

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### STOT - repeated exposure

#### Product:

Remarks: Kidney: can cause kidney damage.

### Aspiration toxicity

### Product:

Not an aspiration hazard.

#### **Further information**

#### Product:

Remarks: Slightly irritating to respiratory system.

Remarks: Inhalation of vapours or mists may cause irritation to the respiratory system.

### **SECTION 12. ECOLOGICAL INFORMATION**

Basis for assessment	:	Ecotoxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the ecotoxicology of similar products. Unless indicated otherwise, the data presented is representa- tive of the product as a whole, rather than for individual com- ponent(s).
Ecotoxicity		
Product:		
Toxicity to fish (Acute toxici- ty)	:	Remarks: LC/EC/IC50 > 100 mg/l Practically non toxic: Based on available data, the classification criteria are not met.
Toxicity to crustacean (Acute toxicity)	:	Remarks: LC/EC/IC50 > 100 mg/l Practically non toxic: Based on available data, the classification criteria are not met.
Toxicity to algae/aquatic plants (Acute toxicity)	:	Remarks: LC/EC/IC50 > 100 mg/l Practically non toxic: Based on available data, the classification criteria are not met.
Toxicity to fish (Chronic tox- icity)	:	Remarks: Data not available
Toxicity to crustacean (Chronic toxicity)	:	Remarks: Data not available

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	Toxicity to microorganisms (Acute toxicity)		:	Remarks: Data not available	
	Persistence and degradability				
	<u>Product:</u> Biodegradability		:	Remarks: Readily biodegradable.	
	Bioaco	cumulative potential			
	Produ	<u>ct:</u>			
	Bioaccumulation		:	Remarks: Does not bioaccumulate significantly.	
	Partition coefficient: n-		:	Remarks: Data not available	
	Mobili	ty in soil			
	Produ	<u>ct:</u>			
	Mobility :		:	Remarks: Liquid under most environmental conditions. If product enters soil, it will be highly mobile and may conta inate groundwater. Dissolves in water. Poses a significant risk of oxygen depletion in aquatic sys- tems.	
	Other	adverse effects			
	<u>Produ</u>	<u>ct:</u>			
	Additio mation	nal ecological infor-	:		cone depletion potential, photochemical otential or global warming potential.

## SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	<ul> <li>Recover or recycle if possible.</li> <li>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.</li> <li>Do not dispose into the environment, in drains or in water courses</li> </ul>
	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.
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		Disposal should be in accordance with applicable regional, national, and local laws and regulations.	
Local Rema	legislation arks	•	be in accordance with applicable regional, cal laws and regulations.

### **SECTION 14. TRANSPORT INFORMATION**

### **National Regulations**

**TDG** Not regulated as a dangerous good

### **International Regulations**

IATA-DGR

Not regulated as a dangerous good

#### IMDG-Code

Not regulated as a dangerous good

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

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

#### Special precautions for user

Remarks

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

### **SECTION 15. REGULATORY INFORMATION**

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

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

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

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

EINECS	: Not all components listed.
TSCA	: All components listed.

DSL : All components listed.

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### **SECTION 16. OTHER INFORMATION**

#### Full text of other abbreviations

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

A vertical bar (|) in the left margin indicates an amendment from the previous version. Revision Date : 2020-07-07

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

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