According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Rotella Fully Formulated AFC w/SCA 50/50

Version 3.0	Revision Date: 08/23/2018		DS Number: 0001029378	Print Date: 08/24/2018 Date of last issue: 09/04/2017			
SECTION	1. IDENTIFICATION						
Prod	Product name		: Rotella Fully Formulated AFC w/SCA 50/50				
Prod	uct code	:	001E0223				
Manu	ufacturer or supplier's	deta	ails				
Manı	ufacturer/Supplier	:	Shell Oil Products US PO Box 4427 Houston TX 77210-4427 USA				
	Request omer Service	:	(+1) 877-276-728	35			
Eme	rgency telephone numl	ber					
Spill Healt	Information th Information		877-504-9351 877-242-7400				
	ommended use of the c ommended use		nical and restricti Antifreeze and co				
SECTION	2. HAZARDS IDENTIFI		TION				
GHS	classification in accord	dan	ce with 29 CFB 1	910 1200			
	e toxicity (Oral)						
	ific target organ toxicity eated exposure	:	Category 2 (Kidn	ey)			
GHS	label elements						
Haza	rd pictograms	:					
Signa	al word	:	Warning				
Haza	urd statements	:	HEALTH HAZAR H302 Harmful if s H373 May cause peated exposure ENVIRONMENT	a physical hazard under GHS criteria. DS: swallowed. damage to organs through prolonged or re- if swallowed.			

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Preca	autionary statements		nds thoroughly after handling. at, drink or smoke when using this product.				
		Response: P301 + P312 IF if you feel unwe P330 Rinse mo					
		Storage: No precaution	ary phrases.				
		Disposal: P501 Dispose o posal plant.	of contents/ container to an approved waste dis-				
Conta	rdous components whi ains ethanediol. ains bittering agent.	ch must be listed on t	he label:				
Othe	r hazards which do n	ot result in classifica	ition				
death	Intentional abuse, misuse or other massive exposure may cause multiple organ damage and or death.						
	The classification of this material is based on OSHA HCS 2012 criteria.						

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

: Mixture of ethylene glycol, water and additives.

Hazardous components

Chemical name	Synonyms	CAS-No.	Concentration (% w/w)
Diethylene glycol	2,2'-	111-46-6	1 - 3
	oxydiethanol		
Ethanediol	ethane-1,2-diol	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.
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.

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	If swallowed		:	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.		
a	Most important symptoms and effects, both acute and delayed		:	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. 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.		
F	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.		
r	Indication of any immediate medical attention and special treatment needed		:	The preferred treat ical facility and us administration of a gastric aspiration. able and a delay of such medical atter may be appropriat there are any sign sidered on a case Specific other treat	ATMENT IS EXTREMELY IMPORTANT! timent is immediate transportation to a med- e of appropriate treatment including possible activated charcoal, gastric lavage and or If none of the above are immediately avail- of more than one hour is anticipated before ntion can be obtained, induction of vomiting te using IPECAC syrup (Contraindicated if is of CNS depression). This should be con- by case basis following specialist advice. timents may include ethanol therapy, fomep- acidosis and haemodialysis. Seek specialist ay.	

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		

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			Breathing Appara a confined space	spilled product is expected. Self-Contained tus must be worn when approaching a fire in Select fire fighter's clothing approved to Is (e.g. Europe: EN469).
SECTI	ON 6. ACCIDENTAL RELE	EAS	E MEASURES	
tiv	ersonal precautions, protec /e equipment and emer- ency procedures	- :	Avoid contact with	n skin and eyes.
E	nvironmental precautions	:	nation. Prevent fr	containment to avoid environmental contami- om spreading or entering drains, ditches or nd, earth, or other appropriate barriers.
			Local authorities cannot be contair	should be advised if significant spillages red.
Methods and materials for containment and cleaning up		:	means such as va safe disposal. Do as contaminated up with an approp	pills (> 1 drum), transfer by mechanical acuum truck to a salvage tank for recovery or not flush away residues with water. Retain waste. Allow residues to evaporate or soak priate absorbent material and dispose of ontaminated soil and dispose of safely
			means to a labele safe disposal. All appropriate absor	bills (< 1 drum), transfer by mechanical ed, sealable container for product recovery or ow residues to evaporate or soak up with an bent material and dispose of safely. Remove and dispose of safely.
A	dditional advice	:	see Chapter 8 of	selection of personal protective equipment this Safety Data Sheet. disposal of spilled material see Chapter 13 of Sheet.
			Local authorities cannot be contair	should be advised if significant spillages red.
			al to the environm	nay require reporting releases of this materi- nent which exceed the reportable quantity 15) to the National Response Center at

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 as- sessment of local circumstances to help determine appropri-

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			ate controls for sa material.	afe handling, storage and disposal of this	
Adv	ice on safe handling	:	Avoid inhaling vap When handling pr worn and proper l	or repeated contact with skin. bour and/or mists. roduct in drums, safety footwear should be nandling equipment should be used. of any contaminated rags or cleaning mate- event fires.	
Avoidance of contact		:	Strong oxidising agents.		
Further information on stor- age stability		:	Keep container tightly closed and in a cool, well-ventilated place. Use properly labeled and closable containers. Store at ambient temperature.		
Pac	kaging material	:	steel or high dens	For containers or container linings, use mild ity polyethylene. al: Zinc., Avoid contact with galvanized ma-	
Container Advice		:		tainers should not be exposed to high tem- e 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
Ethanediol		STEL (Va- pour)	50 ppm	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/

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200 Rotella Fully Formulated AFC w/SCA 50/50

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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.
Personal protective equipmen Respiratory protection :	No respiratory protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precau- tions should be taken to avoid breathing of material. If engineering controls do not maintain airborne concentra- tions to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the spe- cific conditions 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 filte	nation of mask and filter. r suitable for the combination of organic gases [Type A/Type P boiling point >65°C (149°F)].
	t protection emarks	gloves appro US: F739) m suitable cher gloves Suita usage, e.g. f sistance of g glove supplie Personal hyg Gloves must gloves, hand cation of a n For continuo through time 480 minutes short-term/s recognize th may not be a time maybe and replacer a good predi dependent o Glove thickn	contact with the product may occur the use of oved to relevant standards (e.g. Europe: EN374, nade from the following materials may provide mical protection. PVC, neoprene or nitrile rubber bility and durability of a glove is dependent on requency and duration of contact, chemical re- love material, dexterity. Always seek advice from ers. Contaminated gloves should be replaced. giene is a key element of effective hand care. only be worn on clean hands. After using Is should be washed and dried thoroughly. Appli- on-perfumed moisturizer is recommended. us contact we recommend gloves with break- of more than 240 minutes with preference for > where suitable gloves can be identified. For olash protection we recommend the same, but at suitable gloves offering this level of protection available and in this case a lower breakthrough acceptable so long as appropriate maintenance nent regimes are followed. Glove thickness is not ctor of glove resistance to a chemical as it is n the exact composition of the glove material. ess should be typically greater than 0.35 mm n the glove make and model.
Eye ı	protection		handled such that it could be splashed into eyes, rewear is recommended.
Skin	and body protection	work clothes	on is not ordinarily required beyond standard actice to wear chemical resistant gloves.
Prote	ective measures		tective equipment (PPE) should meet recom- onal standards. Check with PPE suppliers.
Ther	mal hazards	: Not applicab	le

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
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vapour.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Odour	:	characteristic
Odour Threshold	:	Data not available
рН	:	Not applicable
Melting point/freezing point	:	-37 °C / -34 °F (100.0 hPa) Method: Unspecified
Initial boiling point and boiling range	:	> 100 °C / 212 °F estimated value(s)
Flash point	:	142 °C / 288 °F
		Method: ASTM D92 (COC)
Evaporation rate	:	Data not available
Flammability (solid, gas)	:	Data not available
Upper explosion limit / upper flammability limit	:	Typical 15 %(V)
Lower explosion limit / Lower flammability limit	:	Typical 3 %(V)
Vapour pressure	:	Data not available
Relative vapour density	:	Data not available
Relative density	:	1.128 (15 °C / 59 °F)
Density	:	1,128 kg/m3 (15.0 °C / 59.0 °F) Method: ASTM D4052
Solubility(ies) Water solubility	:	completely soluble
Solubility in other solvents	:	Data not available
Partition coefficient: n- octanol/water	:	Data not available
Auto-ignition temperature	:	> 200 °C / 392 °F
Decomposition temperature	:	Data not available

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	scosity Viscosity, dynamic Viscosity, kinematic onductivity	:		-
SECTION 10. STABILITY AND REACTIVITY				
Cł	nemical stability	:	Stable.	
Pc tio	ossibility of hazardous reac- ns	:	Reacts with stron	ng oxidising agents.
Co	onditions to avoid	:	Extremes of tem	perature and direct sunlight.
Inc	compatible materials	:	Strong oxidising	agents.

SECTION 11. TOXICOLOGICAL INFORMATION

whole, rather than for individual component(s).	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).
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Hazardous decomposition : No decomposition if stored and applied as directed.

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

products

Product: Acute oral toxicity	: LD50 (rat): > 500 - 2,000 mg/kg Remarks: Harmful if swallowed.
	Remarks: There is a marked difference in acute oral toxicity between rodents and man, man being more susceptible than rodents. The estimated fatal dose for man is 100 milliliters (1/2 cup). This material has also been shown to be toxic and potentially lethal by ingestion to cats and dogs. Ingestion may cause drowsiness and dizziness.
Acute inhalation toxicity	: LC 50 (Rat): > 5 mg/l Exposure time: 4 h Remarks: Low toxicity:
Acute dermal toxicity	: LD50 (Rabbit): > 5,000 mg/kg Remarks: Low toxicity:

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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 availabl	e data, the classification	i 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:

: 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.

IARC	Group 2A: Probably carcinogenic to humans		
	Sodium nitrate	7631-99-4	
OSHA	No component of this product present at levels greate equal to 0.1% is on OSHA's list of regulated carcinoge		
NTP	No component of this product present at levels greate equal to 0.1% is identified as a known or anticipated of by NTP.		
Reproductive toxicity			
Product:			

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

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STOT - single exposure

Product:

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

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.

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 daphnia and other aquatic invertebrates (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 (Acute tox- icity)	:	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

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	Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)		Remarks: Data no	ot available
	Toxicity to microorganisms (Acute toxicity)	:	Remarks: Data no	ot available
	Persistence and degradabil	ity		
	<u>Product:</u> Biodegradability	:	Remarks: Readily	biodegradable.
	Bioaccumulative potential			
	Product: Bioaccumulation	:	Remarks: Does n	ot bioaccumulate significantly.
	Mobility in soil			
	Product:			
	Mobility	:		
	Other adverse effects			
	Product: Additional ecological infor- mation	:		one depletion potential, photochemical otential or global warming potential.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues	Recover or recycle if possible. It is the responsibility of the waste of toxicity and physical properties of the determine the proper waste classifi ods in compliance with applicable r Do not dispose into the environmer courses	he material generated to cation and disposal meth- egulations.
	Waste product should not be allowe ground water, or be disposed of inte Waste, spills or used product is dar	o the environment.
Contaminated packaging	Dispose in accordance with prevail to a recognized collector or contrac	

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		Disposal should	contractor should be established beforehand. I be in accordance with applicable regional, cal laws and regulations.
Local Rema	l legislation arks		be in accordance with applicable regional, cal laws and regulations.

SECTION 14. TRANSPORT INFORMATION

National Regulations

US Department of Transpo UN/ID/NA number	tation Classification (49 CFR Parts 171-180) : UN 3082
Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Ethylene glycol)
Class	: 9
Packing group	: 111
Labels	: 9
Reportable quantity	Ethylene glycol (5,000 lb)
ERG Code	: 171
Marine pollutant	: no
Remarks	: This material is not regulated under 49 CFR if in a container of 119 gallon capacity or less.

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 Chapter 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

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

CERCLA Reportable Quantity

Components CAS-No	. Component RQ Calculated product RQ
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		(lbs)	(lbs)
Ethanediol	107-21-1	5000	*
* Calculated DO avagade reasonably attainable upper limit. Shall algorities this material as an			

*: 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 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	Acute toxicity (any route o Specific target organ toxic	· /	ated exposure)
SARA 313	:	The following components tablished by SARA Title II		oorting levels es-
		Ethanediol	107-21-1	>= 50 - < 70 %

Clean Water Act

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

Sodium nitrite	7632-00-0	0.1671 %
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US State Regulations

Pennsylvania	Right	lo Know	

Ethanediol	107-21-1
Diethylene glycol	111-46-6
Sodium nitrite	7632-00-0

California Prop. 65

WARNING: This product can expose you to chemicals including Ethanediol, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

107-21-1

California List of Hazardous Substances

Ethanediol

Other regulations:

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

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

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

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SECTION 16. OTHER INFORMATION

Further information

NFPA Rating (Health, Fire, Reac- 2, 1, 0 tivity)

Full text of other abbreviations

ACGIH ACGIH / TWA ACGIH / STEL Abbreviations and Acronyms	:	USA. ACGIH Threshold Limit Values (TLV) 8-hour, time-weighted average Short-term exposure limit The standard abbreviations and acronyms used in this docu- ment can be looked up in reference literature (e.g. scientific dictionaries) and/or websites.
		ACGIH = American Conference of Governmental Industrial Hygienists ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road AICS = Australian Inventory of Chemical Substances ASTM = American Society for Testing and Materials BEL = Biological exposure limits BTEX = Benzene, Toluene, Ethylbenzene, Xylenes 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 Moteffect Level DSL = Canada Domestic Substance List EC = European Commission EC50 = Effective Concentration fifty ECETOC = European Chemicals Agency EINECS = The European Inventory of Existing Commercial Chemical Substances EL50 = Effective Loading fifty ENCS = Japanese Existing and New Chemical Substances Inventory EWC = European Waste Code GHS = Globally Harmonised System of Classification and Labelling of Chemicals IARC = International Agency for Research on Cancer IATA = International Agency for

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		 KECI = Korea Existing Chemicals Inventory LC50 = Lethal Concentration fifty LD50 = Lethal Dose fifty per cent. LL/EL/IL = Lethal Loading/Effective Loading/Inhibitory loading LL50 = Lethal Loading fifty MARPOL = International Convention for the Prevention of Pollution From Ships NOEC/NOEL = No Observed Effect Concentration / No Observed Effect Level OE_HPV = Occupational Exposure - High Production Volume PBT = Persistent, Bioaccumulative and Toxic PICCS = Philippine Inventory of Chemicals and Chemical Substances PNEC = Predicted No Effect Concentration Of Chemicals RID = Regulations Relating to International Carriage of Dangerous Goods by Rail SKIN_DES = Skin Designation STEL = Short term exposure limit TRA = Targeted Risk Assessment TSCA = US Toxic Substances Control Act TWA = Time-Weighted Average vPvB = very Persistent and very Bioaccumulative 	

A vertical bar (|) in the left margin indicates an amendment from the previous version. Due to a change in detail in Section 15, this document has been released as a significant change.

Revision Date

: 08/23/2018

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.

US / EN

Visit SCL http://shop.sclubricants.com/rotella-fully-formulated-antifreeze-5050