Shell Dexcool ELC AF/C

Versie 4.0	on	Revision Date: 08/23/2018		DS Number: 0001032440	Print Date: 08/24/2018 Date of last issue: 03/15/2016
SEC1	FION 1	IDENTIFICATION			
F	Produc	t name	:	Shell Dexcool EL	C AF/C
F	Produc	t code	:	22700723	
Г	Manufa	acturer or supplier's	deta	nils	
٦	Manufa	cturer/Supplier	:	Shell Oil Product PO Box 4427 Houston TX 772 USA	
	SDS Re Custorr	equest ner Service	:	(+1) 877-276-728	35
		ency telephone num			
		ormation Information		877-504-9351 877-242-7400	
SECT	TION 2 GHS cl	mended use . HAZARDS IDENTIFI assification in accor	CA ⁻ dan	ce with 29 CFR 19	
9	Specific	c target organ toxicity ted exposure		- /	ey)
ć	CHC Ia	bel elements			
		pictograms	:		
Ş	Signal	word	:	Warning	
ł	Hazard	statements	:	HEALTH HAZAR H302 Harmful if s H373 May cause peated exposure ENVIRONMENT	a physical hazard under GHS criteria. DS: wallowed. damage to organs through prolonged or re- if swallowed.

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Preca	autionary statements	· Prevention: P264 Wash ha	nds thoroughly after handling.
		P270 Do not ea	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 of posal plant.	of contents/ container to an approved waste dis-
Conta Conta	rdous components whi ains Ethylene Glycol, C ains ethanediol. ains bittering agent.		he label:
Othe	r hazards which do n	ot result in classifica	ation
Intent death		other massive expos	ure may cause multiple organ damage and or
The c	lassification of this ma	terial is based on OSI	IA HCS 2012 criteria.
SECTION	3. COMPOSITION/INI	FORMATION ON ING	REDIENTS
Chem	nical nature	: Mixture of ethy	ene glycol, water and additives.

Hazardous components

Chemical name	Synonyms	CAS-No.	Concentration (% w/w)
Diethylene glycol	2,2'-	111-46-6	1 - 5
	oxydiethanol		
Ethanediol	ethane-1,2-diol	107-21-1	80 - 100

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 swalld	owed	:	medical facility for	ot induce vomiting: transport to nearest additional treatment. If vomiting occurs eep head below hips to prevent aspiration.
		nportant symptoms ects, both acute and	:	increased or decre can include nause lumbar pain short death. High concentration pression resulting	ay be recognized by blood in the urine or eased urine flow. Other signs and symptoms ea, vomiting, abdominal cramps, diarrhoea, ly after ingestion, and possibly narcosis and ns may cause central nervous system de- in headaches, dizziness and nausea; con- nay result in unconsciousness and/or death.
	Protect	ion of first-aiders	:		ng first aid, ensure that you are wearing the nal protective equipment according to the d surroundings.
	medica	on of any immediate I attention and special ent 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! atment 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 as of CNS depression). This should be con- by case basis following specialist advice. atments 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	:	Proper protective equipment including chemical resistant

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	for firefighters			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).			
SEC	TION 6.	ACCIDENTAL RELE	ASE	EMEASURES			
	tive equ	al precautions, protec- lipment and emer- procedures	:	Avoid contact with	skin and eyes.		
	Environ	mental precautions	:	nation. Prevent fro	ontainment to avoid environmental contami- om spreading or entering drains, ditches or nd, earth, or other appropriate barriers.		
				Local authorities s cannot be contain	hould be advised if significant spillages ed.		
		s and materials for ment and cleaning up	:	means such as va safe disposal. Do as contaminated v up with an approp	ills (> 1 drum), transfer by mechanical cuum truck to a salvage tank for recovery or not flush away residues with water. Retain vaste. Allow residues to evaporate or soak riate absorbent material and dispose of ontaminated soil and dispose of safely		
				means to a labele safe disposal. Allo appropriate absor	ills (< 1 drum), transfer by mechanical d, sealable container for product recovery or w residues to evaporate or soak up with an bent material and dispose of safely. Remove and dispose of safely.		
	Additior	nal advice	:	see Chapter 8 of t	election of personal protective equipment his Safety Data Sheet. isposal of spilled material see Chapter 13 of heet.		
				Local authorities s cannot be contain	hould be advised if significant spillages ed.		
				al to the environm	nay require reporting releases of this materi- ent which exceed the reportable quantity 5) 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-

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		ate		circumstances to help determine appropri- afe handling, storage and disposal of this
Advic	e on safe handling	Av Wł wo Pre	oid inhaling va nen handling pi rn and proper l	or repeated contact with skin. pour and/or mists. roduct in drums, safety footwear should be handling equipment should be used. of any contaminated rags or cleaning mate- revent fires.
Avoid	ance of contact	: Str	ong oxidising a	agents.
	er information on stor- tability	pla Us	ice.	ghtly closed and in a cool, well-ventilated eled and closable containers. temperature.
Packa	aging material	ste Un	el or high dens	For containers or container linings, use mild sity polyethylene. al: Zinc., Avoid contact with galvanized ma-
Conta	iner 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	Control parame-	Basis
		(Form of exposure)	ters / Permissible concentration	
	407.04.4			100111
Ethanediol	107-21-1	TWA (Va-	25 ppm	ACGIH
		pour)		
Ethanediol		STEL (Va-	50 ppm	ACGIH
		pour)		

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/

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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 equipn	nent	
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.

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		priate combir Select a filter	ering respirators are suitable, select an appro- nation of mask and filter. suitable for the combination of organic gases [Type A/Type P boiling point >65°C (149°F)].
Han	d protection		
	Remarks	gloves approv US: F739) ma suitable chem gloves Suitab usage, e.g. fr sistance of gl glove supplie Personal hyg Gloves must gloves, hands cation of a no For continuou through time 480 minutes short-term/sp recognize tha may not be a time maybe a and replacem a good predic dependent or Glove thickne	contact with the product may occur the use of ved to relevant standards (e.g. Europe: EN374, ade from the following materials may provide nical protection. PVC, neoprene or nitrile rubber bility and durability of a glove is dependent on equency and duration of contact, chemical re- ove material, dexterity. Always seek advice from rs. Contaminated gloves should be replaced. iene is a key element of effective hand care. only be worn on clean hands. After using s 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 lash protection we recommend the same, but at suitable gloves offering this level of protection vailable 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 in the exact composition of the glove material. ess should be typically greater than 0.35 mm in the glove make and model.
Eye	protection		handled such that it could be splashed into eyes, ewear is recommended.
Skir	and body protection	work clothes.	on is not ordinarily required beyond standard ctice to wear chemical resistant gloves.
Prot	ective measures		ective equipment (PPE) should meet recom- onal standards. Check with PPE suppliers.
The	rmal hazards	: Not applicabl	e
Env	ironmental exposure c	ontrols	
Ger	eral advice	: Take appropr	iate measures to fulfill the requirements of rele-

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

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must be observed for the discharge of exhaust air containing vapour. **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES** Appearance Liquid at room temperature. : Colour ÷ orange orange Odour characteristic **Odour Threshold** Data not available pН 8.3 2 Melting point/freezing point ÷ -30 °C / -22 °F Method: Unspecified > 100 °C / 212 °F Initial boiling point and boiling : range estimated value(s) : 125 °C / 257 °F Flash point Method: ASTM D92 (COC) Data not available Evaporation rate Flammability (solid, gas) Data not available Upper explosion limit / upper Typical 15 %(V) 2 flammability limit Lower explosion limit / Lower 2 Typical 3 %(V) flammability limit Data not available Vapour pressure 5 Relative vapour density Data not available 5 1.120 (15.0 °C / 59.0 °F) Relative density 2 ÷ 1,120 kg/m3 (15.0 °C / 59.0 °F) Density Method: ASTM D4052 Solubility(ies) Water solubility ÷ completely soluble Solubility in other solvents : Data not available Partition coefficient: n-Data not available 2

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	Auto-ig	nition temperature	:	> 200 °C / 392 °F	=			
	Decom	position temperature	:	Data not available				
		osity, dynamic	:	Data not available				
	Viscosity, kinematic		:	30 mm2/s (40.0 °C / 104.0 °F)				
				Method: Unspeci	fied			
	Conductivity		:	This material is r	ot expected to be a static accumulator.			
SEC	SECTION 10. STABILITY AND R		EAC	ΤΙVITY				
	Chemic	cal stability	:	Stable.				
	Possibi tions	lity of hazardous reac-	:	Reacts with stror	ng oxidising agents.			
	Conditi	ons to avoid	:	Extremes of tem	perature and direct sunlight.			

Incompatible materials	:	Strong oxidising agents.
------------------------	---	--------------------------

Hazardous decomposition	:	No decomposition if stored and applied as directed.
products		

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.
	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

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		Exposure time: 4 Remarks: Low to	
Acute	dermal toxicity	: LD50 (Rabbit): > Remarks: Low to	

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:

: 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	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.
OSHA	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

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Reproductive toxicity

Product:

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.

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.
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Toxicit icity)	ty to algae (Acute tox-	:	Remarks: LC/EC/ Practically non tox Based on availabl	
Toxicit icity)	ty to fish (Chronic tox-	:	Remarks: Data no	t available
	c invertebrates (Chron-	:	Remarks: Data no	t available
	ty to microorganisms e toxicity)	:	Remarks: Data no	t available
Persis	stence and degradabili	ity		
<u>Produ</u> Biodeg	ict: gradability	:	Remarks: Readily	biodegradable.
Bioac	cumulative potential			
<u>Produ</u> Bioacc	i <u>ct:</u> cumulation	:	Remarks: Does no	ot bioaccumulate significantly.
Mobili	ity in soil			
<u>Produ</u> Mobilit		:		
Other	adverse effects			
Produ Additic mation	onal ecological infor-	:		one depletion potential, photochemical tential 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 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

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		courses			
		ground water, or	hould not be allowed to contaminate soil or be disposed of into the environment. used product is dangerous waste.		
Contaminated packaging :		to a recognized the collector or o Disposal should	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 Rema	legislation urks	•	be in accordance with applicable regional, al laws and regulations.		

SECTION 14. TRANSPORT INFORMATION

National Regulations

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

UN/ID/NA number	: UN 3082
Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Ethylene glycol)
Class	
Class	: 9
Packing group	: III
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.

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SECTION 15. REGULATORY INFORMATION

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

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
Ethanediol	107-21-1	5000	5000

*: 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 of exposure) Specific target organ toxicity (single or repeated exposure)		
SARA 313	:	The following components are subject to reporting levels es tablished by SARA Title III, Section 313:		eporting levels es-
		Ethanediol	107-21-1	>= 90 - <= 100 %

Clean Water Act

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

US State Regulations

Pennsylvania Right To Know Ethanodial

Ethanediol	107-21-1
Diethylene glycol	111-46-6
2-(2-butoxyethoxy)ethanol	112-34-5

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.

California List of Hazardous Substances

Ethanediol

107-21-1

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:

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EINE	CS	: Not established	d.	
TSCA		: All components listed.		
DSL		: All components listed.		

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 DNL = Derived Mo Effect 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

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		IC50 = Inhibito IL50 = Inhibito IMDG = Intern INV = Chinese IP346 = Institu determination KECI = Korea LC50 = Lethal LD50 = Lethal LL/EL/IL = Let LL50 = Lethal MARPOL = Int Pollution From NOEC/NOEL = served Effect I OE_HPV = Oc PBT = Persiste PICCS = Philip Substances PNEC = Predia REACH = Reg Chemicals RID = Regulat gerous Goods SKIN_DES = S STEL = Short TRA = Targete TSCA = US To TWA = Time-V	ational Maritime Dangerous Goods Chemicals Inventory ute of Petroleum test method N° 346 for the of polycyclic aromatics DMSO-extractables Existing Chemicals Inventory Concentration fifty Dose fifty per cent. hal Loading/Effective Loading/Inhibitory loading Loading fifty ernational Convention for the Prevention of Ships = No Observed Effect Concentration / No Ob- level coupational Exposure - High Production Volume ent, Bioaccumulative and Toxic opine Inventory of Chemicals and Chemical cted No Effect Concentration istration Evaluation And Authorisation Of

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.

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