

SAFETY DATA SHEET According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Version 2.0

Revision Date: 04/29/2015

Print Date: 05/21/2015

SECTION 1. IDENTIFICATION

Product name : Shell Diala S2 ZX-A

Product code : 001D8374

Manufacturer or supplier's details

Manufacturer/Supplier	: Shell Oil Products US
	P.O. Box 4427
	Houston TX 77210-4427
	USA
SDS Request	: (+1) 877-276-7285
Customer Service	:

Emergency telephone number

Spill Information		877-504-9351
Health Information	:	877-242-7400

Recommended use of the chemical and restrictions on use

Recommended use : Insulating oil.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Aspiration hazard	: Category 1
Chronic aquatic toxicity	: Category 3
GHS Label element Hazard pictograms	
Signal word	: Danger
Hazard statements	 PHYSICAL HAZARDS: Not classified as a physical hazard under GHS criteria. HEALTH HAZARDS: H304 May be fatal if swallowed and enters airways. ENVIRONMENTAL HAZARDS: H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	 Prevention: P273 Avoid release to the environment. Response: P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor. P331 Do NOT induce vomiting. Storage: P405 Store locked up.
15	20000100071

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Version 2.0

Revision Date: 04/29/2015

Print Date: 05/21/2015

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label: Contains Distillates (petroleum), hydrotreated light naphthenic.

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. 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.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

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

Hazardous components

Chemical Name	Synonyms	CAS-No.	Concentration (%)
Distillates (petroleum),	Distillates (petro-	64742-53-6	95 - 100
hydrotreated light naph-	leum), hydrotreated		
thenic	light naphthenic		
Butylated hydroxytoluene	2,6-di-tert-butyl-p-	128-37-0	0.25 - 0.5
	cresol		

SECTION 4. FIRST-AID MEASURES

If inhaled	No treatment necessary under normal conditions of use. If symptoms persist, obtain medical advice.
In case of skin contact	Remove contaminated clothing. Flush exposed area with wa- ter and follow by washing with soap if available. If persistent irritation occurs, obtain medical attention.
In case of eye contact	Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical attention.
If swallowed	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. If any of the following delayed signs and symptoms appear within the next 6 hours, transport to the nearest medical facility: fever greater than 101° F (38.3°C), shortness of breath, chest congestion or continued coughing or wheezing.
Most important symptoms and effects, both acute and delayed	If material enters lungs, signs and symptoms may include coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath, and/or fever. The onset of respiratory symptoms may be delayed for sever-
15	800001009714

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Version 2.0	Revision Date: 04/29/2015	Print Date: 05/21/2015
	al hours after exposure. Defatting dermatitis signs and sy ing sensation and/or a dried/crac Ingestion may result in nausea,	cked appearance.
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. Call a doctor or poison control co	enter for guidance.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Foam, water spray or fog. Dry chemical powder, carbon dio- xide, 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 me- thods	:	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.
-	15		800001009714

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

sion 2.0	Revision Date: 04/29/2015	Print Date: 05/21/201
	Soak up residue with an abso suitable material and dispose	rbent such as clay, sand or othe of properly.
Additional advice	: For guidance on selection of p see Chapter 8 of this Safety D For guidance on disposal of s this Safety Data Sheet.	
TION 7. HANDLING AND STO	RAGE	
Technical measures	: Use local exhaust ventilation i vapours, mists or aerosols. Use the information in this dat sessment of local circumstand ate controls for safe handling, material.	ta sheet as input to a risk as- ces to help determine appropri-
Precautions for safe handling	worn and proper handling equ	mists. ms, safety footwear should be
Avoidance of contact	: Strong oxidising agents.	
Product Transfer	: This material has the potentia Proper grounding and bonding during all bulk transfer operati	g procedures should be used
Storage Other data	: Keep container tightly closed	and in a cool, well-ventilated
	place. Use properly labeled and clos	able containers.
	Store at ambient temperature	
Packaging material	: Suitable material: For contain steel or high density polyethyl Unsuitable material: PVC.	ers or container linings, use mil ene.

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components with workplace control parameters

Components CAS-No. Value type Control parame- Basis (Form of ters / Permissible

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Version 2.0

Revision Date: 04/29/2015

Print Date: 05/21/2015

		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

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, 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.

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

sion 2.0	Revision Date: 04/29/2015	Print Date: 05/21/20
Personal protective equip	nent	
Respiratory protection	 No respiratory protection is conditions of use. In accordance with good in tions should be taken to av If engineering controls do r tions to a level which is add select respiratory protection cific conditions of use and Check with respiratory prot Where air-filtering respirator priate combination of mask Select a filter suitable for th 	not maintain airborne concentra- equate to protect worker health, n equipment suitable for the spe- meeting relevant legislation. tective equipment suppliers. ors are suitable, select an appro-
Hand protection Remarks	gloves approved to relevan US: F739) made from the f suitable chemical protectio gloves Suitability and dural usage, e.g. frequency and sistance of glove material, glove suppliers. Contamina Personal hygiene is a key of Gloves must only be worn gloves, hands should be w cation of a non-perfumed n For continuous contact we through time of more than 2 480 minutes where suitable short-term/splash protectio recognize that suitable glov may not be available and in time maybe acceptable so and replacement regimes a a good predictor of glove re dependent on the exact co	he product may occur the use of ht standards (e.g. Europe: EN374, following materials may provide n. PVC, neoprene or nitrile rubber bility of a glove is dependent on duration of contact, chemical re- dexterity. Always seek advice fror ated gloves should be replaced. element of effective hand care. on clean hands. After using ashed and dried thoroughly. Appli- noisturizer is recommended. recommend gloves with break- 240 minutes with preference for > e gloves can be identified. For in we recommend the same, but ves offering this level of protection in this case a lower breakthrough long as appropriate maintenance are followed. Glove thickness is ne esistance to a chemical as it is mposition of the glove material. typically greater than 0.35 mm ake and model.
Eye protection	: If material is handled such protective eyewear is recor	that it could be splashed into eyes mmended.
Skin and body protection	: Skin protection is not ordin work clothes. It is good practice to wear o	arily required beyond standard chemical resistant gloves.
Protective measures		nent (PPE) should meet recom- s. Check with PPE suppliers.
Environmental exposure of	ontrols	
General advice	: Take appropriate measure vant environmental protect	s to fulfill the requirements of rele- ion legislation. Avoid contamination wing advice given in Chapter 6.

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Version 2.0	Revision Date: 04/29/2015	Print Date: 05/21/2015
	necessary, prevent undissolved charged to waste water. Waste municipal or industrial waste wa discharge to surface water. Local guidelines on emission lin must be observed for the discha vapour.	water should be treated in a ater treatment plant before nits for volatile substances

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Liquid at room temperature.
Colour	: clear
Odour	: Slight hydrocarbon
Odour Threshold	: Data not available
рН	: Not applicable
pour point	: -57 °C / -71 °FMethod: ASTM D97
Initial boiling point and boiling range	: > 280 °C / 536 °Festimated value(s)
Flash point	: 150 °C / 302 °F Method: ASTM D92
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	: 0.890 (15 °C / 59 °F)
Density	: 890 kg/m3 (15.0 °C / 59.0 °F) Method: ASTM D1298
Solubility(ies) Water solubility	: negligible
Solubility in other solvents	: Data not available
Partition coefficient: n- octanol/water	: Pow: > 6(based on information on similar products)

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Version 2.0	Revision Date: 04/29/2015	Print Date: 05/21/2015
Auto-ignition temperature	: > 320 °C / 608 °F	
Viscosity		
Viscosity, dynamic	: Data not available	
Viscosity, kinematic	: 60 mm2/s (0 °C / 32 °F) Method: ASTM D445	
	2.2 mm2/s (100 °C / 212 °F) Method: ASTM D445	
	9 mm2/s (40.0 °C / 104.0 °F) Method: ASTM D445	
Conductivity	: This material is not expected to be a	a static accumulator.
Decomposition temperature	: Data not available	

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	: Hazardous decomposition products are not expected to form during normal storage.

SECTION 11. TOXICOLOGICAL INFORMATION

Basis for assessment	: Information given is based on data on the components and the toxicology of similar products.Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(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): > 5,000 mg/kg		
		Remarks: Expected to be of low toxicity:	

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Version 2.0	Revision Date: 04/29/2015	Print Date: 05/21/2015
	Remarks: Aspiration into the lung pneumonitis which can be fatal.	gs may cause chemical
Acute inhalation toxicity	: Remarks: Not considered to be a normal conditions of use.	an inhalation hazard under
Acute dermal toxicity	: LD50 (Rabbit): > 5,000 mg/kg Remarks: Expected to be of low	toxicity:

Skin corrosion/irritation

Product:

Remarks: Expected to be slightly irritating., Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.

Serious eye damage/eye irritation

Product:

Remarks: Expected to be slightly irritating.

Respiratory or skin sensitisation

Product:

Remarks: Not expected to be a skin sensitiser.

Germ cell mutagenicity

Product:

: Remarks: Not considered a mutagenic hazard.

Carcinogenicity

Product:

Remarks: Not expected to be carcinogenic.

Remarks: Product contains mineral oils of types shown to be non-carcinogenic in animal skinpainting studies., Highly refined mineral oils are not classified as carcinogenic by the International Agency for Research on Cancer (IARC).

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.
ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen 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 present at levels greater than or
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According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

ersion 2.0	Revision Date: 04/29/2015	Print Date: 05/21/2015
	equal to 0.1% is identified as a known by NTP.	n or anticipated carcinogen
Reproductive toxicity Product:		
<u> </u>	: Remarks: Not expected to impair f a developmental toxicant.	ertility., Not expected to be
STOT - single exposure		

or or onigic exp

Product:

Remarks: Not expected to be a hazard.

STOT - repeated exposure

Product:

Remarks: Not expected to be a hazard.

Aspiration toxicity

Product:

Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

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: 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).(LL/EL/IL50 expressed as the nominal amount of product required to prepare aqueous test extract).
Ecotoxicity	
Product:	
Toxicity to fish (Acute toxic-	:
ity)	Remarks: Expected to be harmful:
10 / 15	800001009714

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

	Re	evision Date: 04/29/2015	Print Date: 05/21/2
		LL/EL/IL50 10-100 mg/l	
Toxicity to daphnia and other aquatic invertebrates (Acute toxicity)	:	Remarks: Expected to be harmful: LL/EL/IL50 10-100 mg/l	
Toxicity to algae (Acute toxic- ity)	:	Remarks: Expected to be harmful: LL/EL/IL50 10-100 mg/l	
Toxicity to fish (Chronic toxic- ity)	:	Remarks: Data not available	
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	Remarks: Data not available	
Toxicity to bacteria (Acute toxicity)	:	Remarks: Data not available	
<u>Components:</u> Butylated hydroxytoluene: M-Factor (Acute aquatic tox- icity)	:	1	
Persistence and degradabilit	ty		
Product:			
Biodegradability	:	Remarks: Expected to be not readily Major constituents are expected to be ble, but contains components that ment.	be inherently biodegrad
Biodegradability Bioaccumulative potential	:	Major constituents are expected to be, but contains components that m	be inherently biodegrad
		Major constituents are expected to be, but contains components that m	be inherently biodegrad hay persist in the enviro
Bioaccumulative potential Product:		Major constituents are expected to b ble, but contains components that m ment. Remarks: Contains components with	be inherently biodegrad hay persist in the enviro
Bioaccumulative potential <u>Product:</u> Bioaccumulation	:	Major constituents are expected to b ble, but contains components that m ment. Remarks: Contains components with	h the potential to bioac
Bioaccumulative potential <u>Product:</u> Bioaccumulation Mobility in soil <u>Product:</u>	:	Major constituents are expected to the ble, but contains components that ment. Remarks: Contains components with cumulate. Remarks: Liquid under most environ If it enters soil, it will adsorb to soil p	h the potential to bioac
Bioaccumulative potential <u>Product:</u> Bioaccumulation Mobility in soil <u>Product:</u>	:	Major constituents are expected to the ble, but contains components that ment. Remarks: Contains components with cumulate. Remarks: Liquid under most enviror If it enters soil, it will adsorb to soil per mobile.	h the potential to bioac

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Version 2.0	Revision Date: 04/29/2015	Print Date: 05/21/2015		
tion	expected to be released to air in Not expected to have ozone dep cal ozone creation potential or g	pletion potential, photochemi-		
	Poorly soluble mixture. May cause physical fouling of ac	quatic organisms.		
	Mineral oil is not expected to cau aquatic organisms at concentrat			
SECTION 13. DISPOSAL CONSIDERATIONS				
Disposal methods	S			

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
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

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

Not regulated as a dangerous good

International Regulation

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

Pollution category	: Not applicable
Ship type	: Not applicable
Product name	: Not applicable
Special precautions	: Not applicable

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Version 2.0	Revision Date: 04/29/2015	Print Date: 05/21/2015
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.	
Additional Information	: MARPOL Annex 1 rules apply for	bulk shipments by sea.

SECTION 15. REGULATORY INFORMATION

OSHA Hazards	:	Aspiration hazard
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EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ., Shell classifies this material as an "oil" under the CERCLA Petroleum Exclusion, therefore releases to the environment are not reportable under CERCLA.

SARA 304 Extremely Hazardous Substances Reportable Quantity

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

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

Clean Water Act

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

Pennsylvania Right To Know	
Distillates (petr naphthenic	oleum), hydrotreated light 64742-53-6
California Prop 65	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.
The components of this produ	uct are reported in the following inventories:
EINECS	: All components listed or polymer exempt.
TSCA	: All components listed.
DSL	: All components listed.

SECTION 16. OTHER INFORMATION

Further information

Version 2.0

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Revision Date: 04/29/2015 NFPA Rating (Health, Fire, Reac-1, 1, 0 tivity) Due to the conversion of this product to GHS classification and labelling, there has been a significant change to the nature of the information presented in chapter 2. A vertical bar () in the left margin indicates an amendment from the previous version. : The standard abbreviations and acronyms used in this docu-Abbreviations and Acronyms 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 No Effect Level DSL = Canada Domestic Substance List EC = European Commission EC50 = Effective Concentration fifty ECETOC = European Center on Ecotoxicology and Toxicology Of Chemicals ECHA = European Chemicals Agency EINECS = The European Inventory of Existing Commercial **Chemical Substances** EL50 = Effective Loading fifty ENCS = Japanese Existing and New Chemical Substances Inventorv EWC = European Waste Code GHS = Globally Harmonised System of Classification and Labelling of Chemicals IARC = International Agency for Research on Cancer IATA = International Air Transport Association IC50 = Inhibitory Concentration fifty IL50 = Inhibitory Level fifty IMDG = International Maritime Dangerous Goods INV = Chinese Chemicals Inventory IP346 = Institute of Petroleum test method N° 346 for the determination of polycyclic aromatics DMSO-extractables 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 Ob-

Print Date: 05/21/2015

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Version 2.0	Revision Date: 04/29/2015	Print Date: 05/21/2015
	served Effect Level OE_HPV = Occupational Exposu PBT = Persistent, Bioaccumulati PICCS = Philippine Inventory of Substances PNEC = Predicted No Effect Cor REACH = Registration Evaluatio Chemicals RID = Regulations Relating to In gerous Goods by Rail SKIN_DES = Skin Designation STEL = Short term exposure limit	ure - High Production Volume ve and Toxic Chemicals and Chemical ncentration n And Authorisation Of ternational Carriage of Dan-
	TRA = Targeted Risk Assessmen TSCA = US Toxic Substances C TWA = Time-Weighted Average vPvB = very Persistent and very	ontrol Act
Revision Date	: 04/29/2015	

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.