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CTION 1. IDENTIFICATION		
Product name	: Shell Morlina S2 BL 10	
Product code	: 001D7737	
Manufacturer or supplier	's details	
Manufacturer/Supplier	: Shell Oil Products US PO Box 4427 Houston TX 77210-4427 USA	
SDS Request Customer Service	: (+1) 877-276-7285 :	
Emergency telephone nu	Imber	
Spill Information	: 877-504-9351	
Health Information	: 877-242-7400	

Recommended use : Machine oil.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Aspiration hazard	: Category 1
Chronic aquatic toxicity	: Category 3
GHS label elements 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.
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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), hydrotreated light naph- thenic	Distillates (petrole- um), hydrotreated light naphthenic	64742-53-6	80 - 95
Phenol, isopropylated, phosphate (3:1) [Triphenyl phosphate >5%]	Phenol, isopropylat- ed, phosphate (3:1)	68937-41-7	0.1 - 0.9
Butylated hydroxytoluene	2,6-di-tert-butyl-p- cresol	128-37-0	0.1 - 0.24

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 water and follow by washing with soap if available. If persistent irritation occurs, obtain medical attention.
In case of eye contact	 Flush eye with copious quantities of water. Remove contact lenses, if present and easy to do. Continue rinsing. If persistent irritation occurs, obtain medical attention.
If swallowed	 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 facili- ty: fever greater than 101° F (38.3°C), shortness of breath,

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	chest congestion or continued co	ughing or wheezing.
Most important symptoms and effects, both acute and delayed	 If material enters lungs, signs and coughing, choking, wheezing, diff congestion, shortness of breath, a The onset of respiratory symptom al hours after exposure. Defatting dermatitis signs and syn ing sensation and/or a dried/crack Ingestion may result in nausea, v 	ficulty in breathing, chest and/or fever. ns may be delayed for sever- mptoms may include a burn- ked appearance.
Protection of first-aiders	: When administering first aid, ensi- appropriate personal protective e incident, injury and surroundings.	equipment according to the
Immediate medical attention, special treatment	: Treat symptomatically. Call a doctor or poison control ce	nter for guidance.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Foam, water spray or fog. Dry chemical powder, carbon diox- ide, sand or earth may be used for small fires only.
Unsuitable extinguishing media	:	Do not use water in a jet.
Specific hazards during fire- fighting	:	Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide may be evolved if incomplete combustion occurs. Unidentified organic and inorganic compounds.
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment.
Special protective equipment for firefighters	:	Proper protective equipment including chemical resistant gloves are to be worn; chemical resistant suit is indicated if large contact with spilled product is expected. Self-Contained Breathing Apparatus must be worn when approaching a fire in a confined space. Select fire fighter's clothing approved to relevant Standards (e.g. Europe: EN469).

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Avoid contact with skin and eyes.
Environmental precautions	:	Use appropriate containment to avoid environmental contami- nation. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.
		Local authorities should be advised if significant spillages
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	cannot be contained.	
Methods and materials for containment and cleaning up	: Slippery when spilt. Avoid accid Prevent from spreading by makin or other containment material. Reclaim liquid directly or in an al Soak up residue with an absorbe suitable material and dispose of	ng a barrier with sand, earth bsorbent. ent such as clay, sand or other
Additional advice	: For guidance on selection of per see Chapter 8 of this Safety Dat For guidance on disposal of spill this Safety Data Sheet.	a Sheet.

SECTION 7. HANDLING AND STORAGE

Technical measures	:	Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.
Precautions for safe handling	:	Avoid prolonged or repeated contact with skin. Avoid inhaling vapour and/or mists. When handling product in drums, safety footwear should be worn and proper handling equipment should be used. Properly dispose of any contaminated rags or cleaning mate- rials in order to prevent fires.
Avoidance of contact	:	Strong oxidising agents.
Product Transfer	:	This material has the potential to be a static accumulator. Proper grounding and bonding procedures should be used during all bulk transfer operations.
Storage		
Other data	:	Keep container tightly closed and in a cool, well-ventilated place. Use properly labeled and closable containers.
		Store at ambient temperature.
Packaging material	:	Suitable material: For containers or container linings, use mild steel or high density polyethylene. Unsuitable material: PVC.
Container Advice	:	Polyethylene containers should not be exposed to high tem- peratures because of possible risk of distortion.

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SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Oil mist, mineral	Not Assigned	TWA ((inhal- able frac- tion))	5 mg/m3	US. ACGIH Threshold Limit Values
		(Mist)	5 mg/m3	OSHA_TRA NS
		TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Inhal- able fraction)	5 mg/m3	ACGIH
Butylated hydroxytoluene	128-37-0	TWA (Inhal- able fraction and vapor)	2 mg/m3	ACGIH

Components with workplace control parameters

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

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	product. Ensure appropriate selection, test equipment used to control exposu equipment, local exhaust ventilation Drain down system prior to equipm nance. Retain drain downs in sealed stora subsequent recycle. Always observe good personal hy washing hands after handling the drinking, and/or smoking. Routine protective equipment to remove co taminated clothing and footwear th Practice good housekeeping.	are, e.g. personal protective on. ment break-in or mainte- age pending disposal or giene measures, such as material and before eating, ely wash work clothing and ontaminants. Discard con-
Personal protective equipme	nt	
Respiratory protection	 No respiratory protection is ordinal conditions of use. In accordance with good industrial tions should be taken to avoid bre If engineering controls do not main tions to a level which is adequate select respiratory protection equip cific conditions of use and meeting Check with respiratory protective of Where air-filtering respirators are spriate combination of mask and filt Select a filter suitable for the combination and vapours [Type A/Type P boili 	I hygiene practices, precau- athing of material. ntain airborne concentra- to protect worker health, ment suitable for the spe- g relevant legislation. equipment suppliers. suitable, select an appro- ter. bination of organic gases
Hand protection Remarks	: Where hand contact with the prod gloves approved to relevant stand US: F739) made from the following suitable chemical protection. PVC gloves Suitability and durability of usage, e.g. frequency and duratio sistance of glove material, dextering glove suppliers. Contaminated glo Personal hygiene is a key elemen Gloves must only be worn on clea gloves, hands should be washed a cation of a non-perfumed moisturi. For continuous contact we recomm through time of more than 240 min 480 minutes where suitable gloves short-term/splash protection we re- recognize that suitable gloves offer may not be available and in this ca time maybe acceptable so long as and replacement regimes are follo a good predictor of glove resistand dependent on the exact compositi Glove thickness should be typicall depending on the glove make and	ards (e.g. Europe: EN374, g materials may provide , neoprene or nitrile rubber a glove is dependent on n of contact, chemical re- ty. Always seek advice from oves should be replaced. t of effective hand care. In hands. After using and dried thoroughly. Appli- zer is recommended. mend gloves with break- nutes with preference for > s can be identified. For ecommend the same, but ering this level of protection ase a lower breakthrough appropriate maintenance owed. Glove thickness is not ce to a chemical as it is on of the glove material. ly greater than 0.35 mm

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Eye protection	: If material is handled such that it could be splashed into eyes, protective eyewear is recommended.		
Skin and body protection	: Skin protection is not ordinarily rowork clothes. It is good practice to wear chemi		
Thermal hazards	: Not applicable		
Protective measures		: Personal protective equipment (PPE) should meet recom- mended national standards. Check with PPE suppliers.	
Environmental exposure of	ontrols		
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 vapour. 		

S

Appearance	: Liqi	uid at room temperature.
Colour	: ligh	t brown
Odour	: Slig	ht hydrocarbon
Odour Threshold	: Dat	a not available
рН	: Not	applicable
pour point	: -30	°C / -22 °FMethod: ISO 3016
Initial boiling point and boiling range	: >2	80 °C / 536 °Festimated value(s)
Flash point) °C / 302 °F thod: ASTM D93 (PMCC)
Evaporation rate	: Dat	a not available
Flammability (solid, gas)	: Dat	a not available
Upper explosion limit	: Тур	bical 10 %(V)
Lower explosion limit	: Тур	bical 1 %(V)
Vapour pressure	: <0	.5 Pa (20 °C / 68 °F)

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	estimated value(s)	
Relative vapour density	: > 1estimated value(s)	
Relative density	: 0.881 (15 °C / 59 °F)	
Density	: 881 kg/m3 (15.0 °C / 59.0 °F) Method: ISO 12185	
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)
Auto-ignition temperature	: > 320 °C / 608 °F	
Viscosity Viscosity, dynamic	: Data not available	
Viscosity, kinematic	: 10 mm2/s (40.0 °C / 104.0 °F) Method: ASTM D445	
	2.3 mm2/s (100 °C / 212 °F) Method: ASTM D445	
Explosive properties	: Not classified	
Oxidizing properties	: Data not available	
Conductivity	: This material is not expected to	be a static accumulator.
Decomposition temperature	: Data not available	

SECTION 10. STABILITY AND REACTIVITY

Extremes of temperature and direct sunlightStrong oxidising agents.	i.
: Extremes of temperature and direct sunlight	t.
: Reacts with strong oxidising agents.	
: Stable.	
	 The product does not pose any further react addition to those listed in the following sub-rest. Stable. Reacts with strong oxidising agents.

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Hazardous decomposition products	: Hazardous decomposition pro during normal storage.	oducts are not expected to form
SECTION 11. TOXICOLOGICAL	INFORMATION	
Basis for assessment	 Information given is based on on the toxicology of similar product the data presented is represen whole, rather than for individual 	ts Unless indicated otherwise, tative of the product as a
Information on likely routes Skin and eye contact are the accidental ingestion.	s of exposure primary routes of exposure although	n exposure may occur following
Acute toxicity		
Product:		
Acute oral toxicity	: LD50 (rat): > 5,000 mg/kg Remarks: Expected to be of lo	w toxicity:
	Remarks: Aspiration into the lupped pneumonitis which can be fata	
Acute inhalation toxicity	: Remarks: Not considered to be normal conditions of use.	e an inhalation hazard under
Acute dermal toxicity	: LD50 (Rabbit): > 5,000 mg/kg Remarks: Expected to be of lo	w 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

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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 equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Product:

Remarks: Not expected to impair fertility., Not expected to be a developmental toxicant.

STOT - single exposure

Product:

Remarks: Not expected to be a hazard.

:

STOT - repeated exposure

Product:

Remarks: Not expected to be a hazard.

Aspiration toxicity

Product:

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

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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 toxici- ty)	:	Remarks: Expected to be harmful: 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 tox- icity)	:	Remarks: Expected to be harmful: LL/EL/IL50 >10 <= 100 mg/l
Toxicity to fish (Chronic tox- icity)	:	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 degradability	у	
<u>Product:</u> Biodegradability	:	Remarks: Expected to be not readily biodegradable. Major constituents are expected to be inherently biodegrada- ble, but contains components that may persist in the environ- ment.

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Bioaccumulative potential		
Product:		
Bioaccumulation	: Remarks: Contains components cumulate.	s with the potential to bioac-
Mobility in soil		
Product:		
Mobility	: Remarks: Liquid under most en If it enters soil, it will adsorb to s mobile.	
	Remarks: Floats on water.	
Other adverse effects		
no data available		
Product:		
Additional ecological infor- mation	 Product is a mixture of non-vola expected to be released to air in Not expected to have ozone de cal ozone creation potential or g 	n any significant quantities. pletion potential, photochemi
	Poorly soluble mixture. May cause physical fouling of a	quatic organisms.
	Mineral oil is not expected to ca	use any chronic effects to

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods Waste from residues	 Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Do not dispose into the environment, in drains or in water courses
	Waste product should not be allowed to contaminate soil or ground water, or be disposed of into the environment. Waste, spills or used product is dangerous waste.
Contaminated packaging	: Dispose in accordance with prevailing regulations, preferably to a recognized collector or contractor. The competence of the collector or contractor should be established beforehand. Disposal should be in accordance with applicable regional, national, and local laws and regulations.

Local legislation

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Remarks	: Disposal should be in accordance national, and local laws and reg	· · · · · · · · · · · · · · · · · · ·

SECTION 14. TRANSPORT INFORMATION

National Regulations

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

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

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

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.
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SECTION 15. REGULATORY INFORMATION

OSHA Hazards : Aspiration hazard

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 re- quirements of SARA Title III, Section 302.

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SARA 313	: This material does not contain an known CAS numbers that excee reporting levels established by S	d the threshold (De Minimis)
Clean Water Act		
This product does not conta Section 311, Table 117.3.	in any Hazardous Chemicals listed und	er the U.S. CleanWater Act,
Pennsylvania Right To Kn	ow	
Distillates (naphthenic	[·····]····]····]·····]······	42-53-6
California Prop 65	This product does not contain ar of California to cause cancer, bir productive harm.	
The components of this p	roduct are reported in the following i	nventories:
EINECS	: All components listed or polymer	exempt.
TSCA	: All components listed.	
DSL	: All components listed.	

SECTION 16. OTHER INFORMATION

Further information

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

A vertical bar () in the left margin indicates an amendment from the previous version.					
Abbreviations and Acronyms	:	The standard abbreviations and acronyms used in this docu-			
-		ment can be looked up in reference literature (e.g. scientific			

	nent 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
E	BTEX = Benzene, Toluene, Ethylbenzene, Xylenes CAS = Chemical Abstracts Service
	CEFIC = European Chemical Industry Council
	CLP = Classification Packaging and Labelling
(COC = Cleveland Open-Cup
I	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
E	ECETOC = European Center on Ecotoxicology and Toxicolo-

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Version 3.2	Revision Date: 01/05/2017 gy Of Chemicals ECHA = European Chemicals A EINECS = The European Invent Chemical Substances EL50 = Effective Loading fifty ENCS = Japanese Existing and Inventory EWC = European Waste Code GHS = Globally Harmonised Sy Labelling of Chemicals IARC = International Agency for IATA = International Air Transpor IC50 = Inhibitory Concentration IL50 = Inhibitory Level fifty IMDG = International Maritime E INV = Chinese Chemicals Invent IP346 = Institute of Petroleum determination of polycyclic aron KECI = Korea Existing Chemical LC50 = Lethal Concentration fift LD50 = Lethal Dose fifty per cer LL/EL/IL = Lethal Loading/Effect LL50 = Lethal Loading fifty MARPOL = International Conve Pollution From Ships NOEC/NOEL = No Observed Eff served Effect Level OE_HPV = Occupational Expos PBT = Persistent, Bioaccumulat PICCS = Philippine Inventory of Substances PNEC = Predicted No Effect Co REACH = Registration Evaluatio Chemicals RID = Regulations Relating to In	Agency tory of Existing Commercial New Chemical Substances stem of Classification and Research on Cancer ort Association fifty Dangerous Goods tory test method N° 346 for the natics DMSO-extractables als Inventory by nt. tive Loading/Inhibitory loading intion for the Prevention of ffect Concentration / No Ob- sure - High Production Volume tive and Toxic Chemicals and Chemical oncentration on And Authorisation Of
	RID = Regulations Relating to Ir gerous Goods by Rail SKIN_DES = Skin Designation STEL = Short term exposure lim TRA = Targeted Risk Assessme TSCA = US Toxic Substances 0	nit ent
	TWA = Time-Weighted Average vPvB = very Persistent and very)
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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.