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 SECTION 1. IDENTIFICATION
 .
 Shell Rotella T6 5W-40

Product code	: 001D5438				
Manufacturer or supplier's of	details				
Manufacturer/Supplier	: Shell Oil Products US P.O. Box 4427 Houston TX 77210-4427 USA				
SDS Request Customer Service	: (+1) 877-276-7285 :				
Emergency telephone number					

Emergency telephone numberSpill Information: 877-504-9351Health Information: 877-242-7400

Recommended use of the chemical and restrictions on use Recommended use : Engine oil.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS Label element

Hazard pictograms	: No Hazard Symbol required
Signal word	: No signal word
Hazard statements	 PHYSICAL HAZARDS: Not classified as a physical hazard under GHS criteria. HEALTH HAZARDS: Not classified as a health hazard under GHS criteria. ENVIRONMENTAL HAZARDS: Not classified as an environmental hazard under GHS criteria.
Precautionary statements	 Prevention: No precautionary phrases. Response: No precautionary phrases. Storage: No precautionary phrases. Disposal: No precautionary phrases.

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.

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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.

Under normal conditions of use or in a foreseeable emergency, this product does not meet the definition of a hazardous chemical when evaluated according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature	 Synthetic base oil and additives. Highly refined mineral oil. The highly refined mineral oil contains <3% (w/w) DMSO- extract, according to IP346. The highly refined mineral oil is only present as additive dilu- ent.
	* contains one or more of the following CAS-numbers: 64742- 53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-65-0, 68037-01-4, 72623-86-0, 72623-87-1, 8042-47-5, 848301-69- 9.

Hazardous components

Chemical Name	Synonyms	CAS-No.	Concentration (%)
Alkaryl amine		36878-20-3	10 - 15
Zinc alkyl dithiophosphate	Phosphorodithioic acid, O,O-di-C1-14- alkyl esters, zinc salts	68649-42-3	1 - 2.4
Alkylthiocarbamide metal complex		Not Assigned	0.1 - 0.9
Interchangeable low vis- cosity base oil (<20,5 cSt @40°C) *		Not Assigned	0 - 90

SECTION 4. FIRST-AID MEASURES

	General advice	:	Not expected to be a health hazard when used under normal conditions.
	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	:	In general no treatment is necessary unless large quantities
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	are swallowed, however, get me	edical advice.
Most important symptoms and effects, both acute and delayed	: Oil acne/folliculitis signs and syn of black pustules and spots on t Ingestion may result in nausea,	he skin of exposed areas.
Protection of first-aiders	: When administering first aid, en appropriate personal protective incident, injury and surrounding	equipment according to the
Immediate medical attention, special treatment	: Treat symptomatically.	

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 prec tive equipmen gency proced	nt and emer-	:	Avoid contact with skin and eyes.
Environmenta	I 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 containment a	materials for 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.
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		Reclaim liquid directly or in an abs Soak up residue with an absorber suitable material and dispose of p	nt such as clay, sand or other
Additional advice	:	For guidance on selection of personal see Chapter 8 of this Safety Data For guidance on disposal of spille this Safety Data Sheet.	Sheet.
SECTION 7. HANDLING AND STO)R/	AGE	
Technical measures	:	Use local exhaust ventilation if the vapours, mists or aerosols. Use the information in this data sh sessment of local circumstances that ate controls for safe handling, stor material.	neet as input to a risk as- to help determine appropri-
Precautions for safe handling	:	Avoid prolonged or repeated conta Avoid inhaling vapour and/or mists When handling product in drums, worn and proper handling equipm Properly dispose of any contamina rials in order to prevent fires.	s. safety footwear should be ent should be used.
Avoidance of contact	:	Strong oxidising agents.	
Product Transfer	:	This material has the potential to l Proper grounding and bonding pro during all bulk transfer operations	ocedures should be used
Storage			
Other data	:	Keep container tightly closed and place. Use properly labeled and closable	
		Store at ambient temperature.	
Packaging material	:	Suitable material: For containers of steel or high density polyethylene Unsuitable material: PVC.	
Container Advice	:	Polyethylene containers should no peratures because of possible risk	

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components with work	place control paran	neters		
Components	CAS-No.	Value type	Control parame-	Basis
4 / 15			80	00001030776 US

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		(Form of exposure)	ters / Permissible 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.

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Personal protective equipment 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. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for the combination of organic gases and vapours [Type A/Type P boiling point >65°C (149°F)]. Hand protection Remarks Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection. PVC, neoprene or nitrile rubber gloves Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended. For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified. For short-term/splash protection we recommend the same, but recognize that suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time maybe acceptable so long as appropriate maintenance and replacement regimes are followed. Glove thickness is not a good predictor of glove resistance to a chemical as it is dependent on the exact composition of the glove material. Glove thickness should be typically greater than 0.35 mm depending on the glove make and model. Eve protection If material is handled such that it could be splashed into eyes, protective evewear is recommended. Skin and body protection : Skin protection is not ordinarily required beyond standard work clothes.

Protective measures : Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

It is good practice to wear chemical resistant gloves.

Environmental exposure controls

General advice	•	Take appropriate measures to fulfill the requirements of rele-
		raite appropriate measures to runni the requirements of rele

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	vant environmental protection le of the environment by following a necessary, prevent undissolved charged to waste water. Waste v municipal or industrial waste wat discharge to surface water. Local guidelines on emission lim must be observed for the discha vapour.	advice given in Chapter 6. If material from being dis- water should be treated in a ter treatment plant before its for volatile substances

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Liquid at room temperature.
Colour	: amber
Odour	: Slight hydrocarbon
Odour Threshold	: Data not available
рН	: Not applicable
pour point	: -42 °C / -44 °FMethod: ASTM D97
Initial boiling point and boiling range	: > 280 °C / 536 °Festimated value(s)
Flash point	: 224 °C / 435 °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	: 0.858 (15 °C / 59 °F)
Density	: 858 kg/m3 (15.0 °C / 59.0 °F) Method: ASTM D4052
Solubility(ies) Water solubility	: negligible
Solubility in other solvents	: Data not available
Partition coefficient: n-	: Pow: > 6(based on information on similar products)
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octanol/water		
Auto-ignition temperature	: > 320 °C / 608 °F	
Viscosity Viscosity, dynamic	: Data not available	
Viscosity, kinematic	: 87 mm2/s (40.0 °C / 104.0 °F) Method: ASTM D445	
	14.2 mm2/s (100 °C / 212 °F) Method: ASTM D445	
Conductivity	: This material is not expected to be a	static accumulator.
Decomposition temperature	: Data not available	

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: The product does not pose any further reactivity hazards in addition to those listed in the following sub-paragraph.
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 rout Skin and eye contact are th accidental ingestion.	es of exposure e primary routes of exposure although exposure may occur following
Acute toxicity	
Product:	
Acute oral toxicity	: LD50 (rat): > 5,000 mg/kg Remarks: Expected to be of low toxicity:

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Acute inhalation toxicity	: Remarks: Not considered to be normal conditions of use.	an inhalation hazard under
Acute dermal toxicity	: LD50 (Rabbit): > 5,000 mg/kg Remarks: Expected to be of low	<i>i</i> toxicity:
Skin corrosion/irritation		
	lightly irritating., Prolonged or repeated s of the skin resulting in disorders such	
Serious eye damage/eye	irritation	
Product: Remarks: Expected to be s	lightly irritating.	
Components: Zinc alkyl dithiophosphat Remarks: Based on availat	t e: ble data, the classification criteria are no	ot met.
Respiratory or skin sensi	tisation	
Product: Remarks: Not expected to	be a skin sensitiser.	
Germ cell mutagenicity		
Product:	: Remarks: Not considered a mut	agenic hazard.
Carcinogenicity		
Product:	he carcinogenic	
Remarks: Not expected to	be ouroinogenie.	
Remarks: Not expected to	No component of this product pres equal to 0.1% is identified as proba human carcinogen by IARC.	
	No component of this product pres equal to 0.1% is identified as proba	able, possible or confirmed sent at levels greater than or
IARC	No component of this product prese equal to 0.1% is identified as proba human carcinogen by IARC. No component of this product prese equal to 0.1% is identified as a car	able, possible or confirmed sent at levels greater than or cinogen or potential carcino- sent at levels greater than or

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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:

Not considered an aspiration hazard.

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: Continuous contact with used engine oils has caused skin cancer in animal tests.

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 practically non toxic:

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		LL/EL/IL50 > 100 mg/l	
Toxicity to daphnia and other aquatic invertebrates (Acute toxicity)	:	Remarks: Expected to be practic LL/EL/IL50 > 100 mg/l	ally non toxic:
Toxicity to algae (Acute toxic- ity)	:	Remarks: Expected to be practic LL/EL/IL50 > 100 mg/I	ally non toxic:
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	
Persistence and degradabilit	y		
Product:			
Biodegradability	:	Remarks: Expected to be not rea Major constituents are expected ble, but contains components that ment.	to be inherently biodegrad
Bioaccumulative potential			
Product:			
Bioaccumulation	:	Remarks: Contains components cumulate.	with the potential to bioac-
Mobility in soil			
Product:			
Mobility	:	Remarks: Liquid under most env If it enters soil, it will adsorb to so mobile.	
		Remarks: Floats on water.	
Other adverse effects no data available			
Product:			
Additional ecological informa-	:	Product is a mixture of non-volat expected to be released to air in Not expected to have ozone dep	any significant quantities. letion potential, photochen
tion		cal ozone creation potential or gl	obai warming potentiai.
tion			abal warming natantia!

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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods Waste from residues	: 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.
	Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or na- tional requirements and must be complied with.
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.

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 Ship type Product name Special precautions	 Not applicable Not applicable Not applicable Not applicable 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.

SECTION 15. REGULATORY INFORMATION

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OSHA Hazards

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: No OSHA Hazards

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

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Ethylenediamine	107-15-3	5000	*

*: Calculated RQ exceeds reasonably attainable upper limit.

CERCLA Reportable Quantity

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

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
Ethylenediamine	107-15-3	5000	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 311/312 Hazards	: No SARA Hazards
SARA 302	: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313	: The following components are subject to reporting levels es- tablished by SARA Title III, Section 313:
	Zinc alkyl dithiophosphate 68649-42-3 1.98 %

Clean Water Act

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

Ethylenediamir	ne 107-15-3	0.0088 %			
Pennsylvania Right To Know					
Distillates paraffinic	(petroleum), hydrotreated he	avy 64742-54-7			
Distillates paraffinic	s (petroleum), hydrotreated he	avy 64742-54-7			
	Distillates (petroleum), solvent-dewaxed heavy paraffinic				
New Jersey Right To Know					
Zinc alky	dithiophosphate	68649-42-3			
California Prop 65	•	t contain any chemicals known to State cancer, birth defects, or any other re-			

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

EINECS :	All components listed or polyn	ner exempt.
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TSCA	: All components listed.	
DSL	: All components listed.	

SECTION 16. OTHER INFORMATION

Further information

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

A vertical bar (|) in the left margin indicates an amendment from the previous version.

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 Ninima Effect Level
DSL = Canada Domestic Substance List
EC = European Commission
EC50 = Effective Concentration fifty
ECETOC = European Center on Ecotoxicology and Toxicolo- gy 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 Inventory
EWC = Éuropean 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

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	LC50 = Lethal Concentration fifty LD50 = Lethal Dose fifty per cen LL/EL/IL = Lethal Loading/Effect LL50 = Lethal Loading fifty MARPOL = International Conver Pollution From Ships NOEC/NOEL = No Observed Eff served Effect Level OE_HPV = Occupational Expose PBT = Persistent, Bioaccumulati PICCS = Philippine Inventory of Substances PNEC = Predicted No Effect Con REACH = Registration Evaluatio Chemicals RID = Regulations Relating to In gerous Goods by Rail SKIN_DES = Skin Designation STEL = Short term exposure lim TRA = Targeted Risk Assessme TSCA = US Toxic Substances C TWA = Time-Weighted Average vPvB = very Persistent and very	it. ive Loading/Inhibitory loading ntion for the Prevention of fect Concentration / No Ob- ure - High Production Volume ive and Toxic Chemicals and Chemical ncentration on And Authorisation Of ternational Carriage of Dan- it nt control Act
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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.