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CTION 1. IDENTIFICATIO	N	
Product name	: Quaker State Advanced Durabili	ty SAE 5W-20 Motor Oil
Product code	: 001D7553	
Manufacturer or suppli	er's 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 r	number	
Spill Information Health Information	: 877-504-9351 : 877-242-7400	
Recommended use of t	he 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	<ul> <li>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.</li> </ul>
Precautionary statements	<ul> <li>Prevention: No precautionary phrases.</li> <li>Response: No precautionary phrases.</li> <li>Storage: No precautionary phrases.</li> <li>Disposal: No precautionary phrases.</li> </ul>

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

> \* 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 (%)
Interchangeable low vis- cosity base oil (<20,5 cSt @40°C) *		Not Assigned	0 - 90

No hazardous ingredients

#### **SECTION 4. FIRST-AID MEASURES**

General advice	Not expected to be a health hazard when u conditions.	ised under normal
If inhaled	No treatment necessary under normal cond f symptoms persist, obtain medical advice.	
In case of skin contact	Remove contaminated clothing. Flush expo er and follow by washing with soap if avail f persistent irritation occurs, obtain medica	able.
In case of eye contact	Flush eye with copious quantities of water. f persistent irritation occurs, obtain medica	I attention.
If swallowed	n general no treatment is necessary unles are swallowed, however, get medical advic	<b>.</b>
Most important symptoms and effects, both acute and delayed	Dil acne/folliculitis signs and symptoms ma of black pustules and spots on the skin of e ngestion may result in nausea, vomiting ar	exposed areas.
Protection of first-aiders	When administering first aid, ensure that yo appropriate personal protective equipment ncident, injury and surroundings.	

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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 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. Soak up residue with an absorbent such as clay, sand or other suitable material and dispose of properly.
Additional advice	:	For guidance on selection of personal protective equipment see Chapter 8 of this Safety Data Sheet. For guidance on disposal of spilled material see Chapter 13 of
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	this Safety Data Sheet.	
SECTION 7. HANDLING AND STO	DRAGE	
Technical measures	: Use local exhaust ventilation if th vapours, mists or aerosols. Use the information in this data s sessment of local circumstances ate controls for safe handling, sto material.	sheet as input to a risk as- to help determine appropri-
Precautions for safe handling	: Avoid prolonged or repeated con Avoid inhaling vapour and/or mis When handling product in drums worn and proper handling equipr Properly dispose of any contamin rials in order to prevent fires.	sts. , safety footwear should be nent should be used.
Avoidance of contact	: Strong oxidising agents.	
Product Transfer	: This material has the potential to Proper grounding and bonding p during all bulk transfer operations	rocedures 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 steel or high density polyethylene Unsuitable material: PVC.	
Container Advice	: Polyethylene containers should r peratures because of possible ris	

## SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

## Components with workplace control parameters

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

Contains no substances with occupational exposure limit values.

## **Biological occupational exposure limits**

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## 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.

#### 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,

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	select respiratory protection equi- cific conditions of use and meet Check with respiratory protectiv Where air-filtering respirators and priate combination of mask and Select a filter suitable for the co and vapours [Type A/Type P b	ting relevant legislation. re equipment suppliers. re suitable, select an appro- filter. ombination of organic gases
Hand protection		
Hand protection Remarks	: Where hand contact with the pr gloves approved to relevant sta US: F739) made from the follow suitable chemical protection. PV gloves Suitability and durability usage, e.g. frequency and dura sistance of glove material, dexte glove suppliers. Contaminated of Personal hygiene is a key elem Gloves must only be worn on cl gloves, hands should be washe cation of a non-perfumed moist For continuous contact we reco through time of more than 240 of 480 minutes where suitable gloves of short-term/splash protection we recognize that suitable gloves of may not be available and in this time maybe acceptable so long and replacement regimes are for a good predictor of glove resista dependent on the exact compose Glove thickness should be typic depending on the glove make a	ndards (e.g. Europe: EN374, ving materials may provide /C, neoprene or nitrile rubber of a glove is dependent on tion of contact, chemical re- erity. Always seek advice from gloves should be replaced. ent of effective hand care. ean hands. After using ed and dried thoroughly. Appli- urizer is recommended. mmend gloves with break- minutes with preference for > ves can be identified. For recommend the same, but offering this level of protection a case a lower breakthrough as appropriate maintenance ollowed. Glove thickness is not ance to a chemical as it is sition of the glove material. cally greater than 0.35 mm
Eye protection	: If material is handled such that protective eyewear is recomme	
Skin and body protection	<ul> <li>Skin protection is not ordinarily work clothes.</li> <li>It is good practice to wear chem</li> </ul>	
Protective measures	: Personal protective equipment mended national standards. Ch	
Environmental exposure cor	ntrols	
General advice	: Take appropriate measures to f vant environmental protection le of the environment by following 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 dischar vapour.	egislation. Avoid contamination advice given in Chapter 6. If a material from being dis- water should be treated in a ater treatment plant before nits for volatile substances

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#### 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	: -36 °C / -33 °FMethod: ASTM D97
Initial boiling point and boiling range	: > 280 °C / 536 °Festimated value(s)
Flash point	: 229 °C / 444 °F Method: ASTM D93 (PMCC)
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	: 0.886 (15 °C / 59 °F)
Density	: 886 kg/m3 (15.0 °C / 59.0 °F) Method: Unspecified
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

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Viscosity, kinematic	: 47.7 mm2/s (40.0 °C / 104.0 °F) Method: ASTM D445	
	8.2 mm2/s (100 °C / 212 °F) Method: ASTM D445	
Conductivity	: This material is not expected to be	e 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 forr during normal storage.	n

#### SECTION 11. TOXICOLOGICAL INFORMATION

the toxicology of sir the data presented	s based on data on the components and milar products.Unless indicated otherwise, is representative of the product as a for individual component(s).
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#### 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:
Acute inhalation toxicity	: Remarks: Not considered to be an inhalation hazard under normal conditions of use.
Acute dermal toxicity	: LD50 (Rabbit): > 5,000 mg/kg Remarks: Expected to be of low toxicity:

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#### 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 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

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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	<ul> <li>Ecotoxicological data have not been determine for this product.</li> <li>Information given is based on a knowledge of the and the ecotoxicology of similar products.</li> <li>Unless indicated otherwise, the data presented tive of the product as a whole, rather than for in ponent(s).(LL/EL/IL50 expressed as the nominal product required to prepare aqueous test extransional</li> </ul>	he components is representa- ndividual com- al amount of
Ecotoxicity		
Product: Toxicity to fish (Acute toxic- ity)	: Remarks: Expected to be practically non toxic: LL/EL/IL50 > 100 mg/l	
Toxicity to daphnia and other aquatic invertebrates (Acute toxicity)	: Remarks: Expected to be practically non toxic: LL/EL/IL50 > 100 mg/l	
Toxicity to algae (Acute toxic- ity)	Remarks: Expected to be practically non toxic:	
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	LL/E	EL/IL50 > 100 mg/l	
Toxicity to fish (Chronic toxic- ity)	: Ren	narks: Data not available	
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	: Ren	narks: Data not available	
Toxicity to bacteria (Acute toxicity)	: Ren	narks: Data not available	
Persistence and degradability	y		
Product:			
Biodegradability	Maj	narks: Expected to be not re or constituents are expected but contains components th nt.	I to be inherently biodegrada
Bioaccumulative potential			
Product:			
Bioaccumulation		narks: Contains components nulate.	s with the potential to bioac-
Mobility in soil			
Product:			
Mobility		narks: Liquid under most env enters soil, it will adsorb to s bile.	
	Ren	narks: Floats on water.	
Other adverse effects			
no data available			
Product:			
Additional ecological informa- tion	exp Not	duct is a mixture of non-vola ected to be released to air in expected to have ozone dep ozone creation potential or g	n any significant quantities. Dietion potential, photochem
		rly soluble mixture.	quatic organisms.
		······································	

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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
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**
- : No OSHA Hazards

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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	No SARA Hazards		
SARA 302 :	No chemicals in this materia requirements of SARA Title	•	eporting
SARA 313 :	<ul> <li>The following components a tablished by SARA Title III,</li> </ul>		ig levels es-
	Zinc alkyl dithiophosphate	68649-42-3	0.9563 %
	Zinc dialkyl dithiophos- phate	68649-42-3	0.0954 %

#### Clean Water Act

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

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.
•	<ul><li>ict are reported in the following inventories:</li><li>All components listed or polymer exempt.</li></ul>
TSCA	: All components listed.
DSL	: All components listed.

#### **SECTION 16. OTHER INFORMATION**

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

		<ul> <li>n indicates an amendment from the previous version.</li> <li>The standard abbreviations and acronyms used in this document can be looked up in reference literature (e.g. scientific dictionaries) and/or websites.</li> </ul>
		ACGIH = American Conference of Governmental Industrial Hygienists ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road
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	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			
	ECETOC = European Center o	n Ecotoxicology and Toxicolo-		
	gy Of Chemicals			
	ECHA = European Chemicals A EINECS = The European Inver			
	Chemical Substances	nory of Existing Commercial		
	EL50 = Effective Loading fifty			
	ENCS = Japanese Existing and	New Chemical Substances		
	Inventory			
	EWC = European Waste Code			
	GHS = Globally Harmonised Sy	stem of Classification and		
	Labelling of Chemicals			
	IARC = International Agency fo			
	IATA = International Air Transp IC50 = Inhibitory Concentration			
	IL50 = Inhibitory Level fifty	Thity		
	IMDG = International Maritime	Dangerous Goods		
	INV = Chinese Chemicals Inve			
	IP346 = Institute of Petroleum			
	determination of polycyclic aror	natics DMSO-extractables		
	KECI = Korea Existing Chemica	als Inventory		
	LC50 = Lethal Concentration fif			
	LD50 = Lethal Dose fifty per ce			
	LL/EL/IL = Lethal Loading/Effec	ctive Loading/Inhibitory loading		
	LL50 = Lethal Loading fifty	antion for the Drevention of		
	MARPOL = International Conve Pollution From Ships	ention for the Prevention of		
	NOEC/NOEL = No Observed E	ffect Concentration / No Ob-		
	served Effect Level			
	OE_HPV = Occupational Expos	sure - High Production Volume		
	PBT = Persistent, Bioaccumula			
	PICCS = Philippine Inventory o	f Chemicals and Chemical		
	Substances			
	PNEC = Predicted No Effect Co			
	REACH = Registration Evaluati	ion And Authorisation Of		
	Chemicals	ntornational Carriage of Dan		
	RID = Regulations Relating to I gerous Goods by Rail	memanonal Camage of Dan-		
	SKIN_DES = Skin Designation			
	STEL = Short term exposure lir	nit		
	TRA = Targeted Risk Assessm			
	TSCA = US Toxic Substances			
	TWA = Time-Weighted Average			

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	vPvB = very Persistent and very Bioaccumulative	
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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.