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SECTION 1. IDENTIFICATION		
Product name	: Pennzoil SAE 10W-40 Motor Oil	
5		
Product code	: 001D7519	
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 nu		
Spill Information	: 877-504-9351	
Health Information	: 877-242-7400	
Recommended use of th Recommended use	e chemical and restrictions on 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	<ul> <li>Highly refined mineral oils and additives. The highly refined mineral oil contains &lt;3% (w/w) DMSO- extract, according to IP346.</li> </ul>
	* 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 (%)
Polyolefin Amide Alke- neamine Polyol		Not Assigned	1 - 3
Alkaryl amine		Not Assigned	1 - 3
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 are swallowed, however, get medical advice.
Most important symptoms and effects, both acute and delayed	:	Oil acne/folliculitis signs and symptoms may include formation of black pustules and spots on the skin of exposed areas. Ingestion may result in nausea, vomiting and/or diarrhoea.
Protection of first-aiders	:	When administering first aid, ensure that you are wearing the

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	appropriate personal protective equipaint incident, injury and surroundings.	ment 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 precautions, protec- tive equipment and emer- gency procedures	oid contact with	n skin and eyes.
Environmental precautions	tion. Prevent fr	containment to avoid environmental contami- om spreading or entering drains, ditches or nd, earth, or other appropriate barriers.
	cal authorities s	should be advised if significant spillages ed.
Methods and materials for containment and cleaning up	event from spre other containm eclaim liquid dire oak up residue v	It. Avoid accidents, clean up immediately. eading by making a barrier with sand, earth ent material. ectly or in an absorbent. with an absorbent such as clay, sand or other and dispose of properly.

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Additional advice	: For guidance on selection of pe see Chapter 8 of this Safety Da For guidance on disposal of spil this Safety Data Sheet.	ta 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.

# SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

	· · ·				
С	omponents	CAS-No.	Value type (Form of	Control parame- ters / Permissible	Basis
			`		
			exposure)	concentration	
0	vil mist, mineral	Not Assigned	TWA ((inhal-	5 mg/m3	US. ACGIH
			able frac-		Threshold
			tion))		Limit Values
			(Mist)	5 mg/m3	OSHA_TRA
					NS

## Components with workplace control parameters

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#### **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.

#### Personal protective equipment

Respiratory protection	<ul> <li>No respiratory protection is ordinarily required under normal conditions of use.</li> <li>In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material.</li> <li>If engineering controls do not maintain airborne concentra-</li> </ul>

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	tions to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the spe- cific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appro- priate 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 pro- gloves approved to relevant star US: F739) made from the followind suitable chemical protection. PV gloves Suitability and durability of usage, e.g. frequency and durating sistance of glove material, dexter glove suppliers. Contaminated g Personal hygiene is a key element Gloves must only be worn on clear gloves, hands should be washed cation of a non-perfumed moistur For continuous contact we recorn through time of more than 240 m 480 minutes where suitable gloves of may not be available and in this time maybe acceptable so long a and replacement regimes are for a good predictor of glove resistand dependent on the exact compos Glove thickness should be typicand depending on the glove make ar	adards (e.g. Europe: EN374, ing materials may provide C, neoprene or nitrile rubber of a glove is dependent on ion of contact, chemical re- rity. Always seek advice from loves should be replaced. ent of effective hand care. ean hands. After using d and dried thoroughly. Appli- irizer is recommended. nmend gloves with break- ninutes with preference for > es can be identified. For recommend the same, but fering this level of protection case a lower breakthrough as appropriate maintenance llowed. Glove thickness is not nce to a chemical as it is ition of the glove material. ally greater than 0.35 mm
Eye protection	: If material is handled such that it protective eyewear is recommen	
Skin and body protection	<ul> <li>Skin protection is not ordinarily r work clothes.</li> <li>It is good practice to wear chemi</li> </ul>	
Protective measures	: Personal protective equipment ( mended national standards. Che	
Environmental exposure co	ntrols	
General advice	: Take appropriate measures to fur vant environmental protection lea of the environment by following a necessary, prevent undissolved charged to waste water. Waste water municipal or industrial waste wate discharge to surface water. Local guidelines on emission lim must be observed for the discha vapour.	gislation. Avoid contamination advice given in Chapter 6. If material from being dis- water should be treated in a ter treatment plant before

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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	: -42 °C / -44 °FMethod: ASTM D97
Initial boiling point and boiling range	: > 280 °C / 536 °Festimated value(s)
Flash point	: 204 °C / 399 °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	: 0.875 (15 °C / 59 °F)
Density	: 875 kg/m3 (15.6 °C / 60.1 °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	: 15.4 mm2/s (100 °C / 212 °F) Method: ASTM D445	
	104.7 mm2/s (40.0 °C / 104.0 °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 ir addition to those listed in the following sub-paragraph.	ı
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 for during normal storage.	rm

## 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).
---	--

## 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	Ecotoxicological data have not been determined for this product. Information given is based on a knowledge of th and the ecotoxicology of similar products. 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 extract	ne components is representa- dividual 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-	Remarks: Expected to be practically non toxic:	
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		LL/EL/IL50 > 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	
Persistence and degradabili	ty		
Product:			
Biodegradability	:	Remarks: Expected to be not re Major constituents are expected ble, but contains components the ment.	d to be inherently biodegrada
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 informa- tion	:	Product is a mixture of non-vola expected to be released to air ir 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 aquatic organisms at concentra	

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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 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.

California Prop 65	This product does not contain any chemicals known to State of California to cause 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 polymer exempt.				
	: All components listed.			
DSL	: All components listed.			

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

#### Further information

NFPA Rating (Health, Fire, Reac- 0, 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. Abbreviations and Acronyms : The standard abbreviations and acronyms used in this document 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

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	BTEX = Benzene, Toluene, Et	
	CAS = Chemical Abstracts Ser	
	CEFIC = European Chemical Ir	
	CLP = Classification Packaging	g and Labelling
	COC = Cleveland Open-Cup	
	DIN = Deutsches Institut fur No DMEL = Derived Minimal Effect	
	DNEL = Derived Minima Effect	
	DSL = Canada Domestic Subs	
	EC = European Commission	
	EC50 = Effective Concentration	n fifty
	ECETOC = European Center o	
	gy Of Chemicals	
	ECHA = European Chemicals	
	EINECS = The European Inver	ntory of Existing Commercial
	Chemical Substances	
	EL50 = Effective Loading fifty	New Chamical Substances
	ENCS = Japanese Existing and Inventory	Thew Chemical Substances
	EWC = European Waste Code	
	GHS = Globally Harmonised Sy	
	Labelling of Chemicals	,
	IARC = International Agency fo	
	IATA = International Air Transp	
	IC50 = Inhibitory Concentration	ı fifty
	IL50 = Inhibitory Level fifty	
	IMDG = International Maritime	
	INV = Chinese Chemicals Inve IP346 = Institute of Petroleum	
	determination of polycyclic aror	
	KECI = Korea Existing Chemic	
	LC50 = Lethal Concentration fil	
	LD50 = Lethal Dose fifty per ce	nt.
	LL/EL/IL = Lethal Loading/Effect	ctive Loading/Inhibitory loading
	LL50 = Lethal Loading fifty	
	MARPOL = International Conve	ention for the Prevention of
	Pollution From Ships	ffeet Concentration / No. Ob
	NOEC/NOEL = No Observed E served Effect Level	meet Concentration / No Ob-
	OE_HPV = Occupational Expos	sure - High Production Volume
	PBT = Persistent, Bioaccumula	
	PICCS = Philippine Inventory o	
	Substances	
	PNEC = Predicted No Effect Co	oncentration
	REACH = Registration Evaluat	ion And Authorisation Of
	Chemicals	
	RID = Regulations Relating to I	nternational Carriage of Dan-
	gerous Goods by Rail	
	SKIN_DES = Skin Designation	nit
	STEL = Short term exposure lir	
	TRA – Targeted Rick Accecem	ent
	TRA = Targeted Risk Assessm TSCA = US Toxic Substances	
	TRA = Targeted Risk Assessm TSCA = US Toxic Substances TWA = Time-Weighted Average	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.