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ECTION 1. IDENTIFICATION		
Product name	: Pennzoil Synchromesh Fluid	
Product code	: 001B0853	
Manufacturer or supplier	'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 nu	mber	
Spill Information Health Information	: 877-504-9351 : 877-242-7400	
Recommended use of th	e chemical and restrictions on use	
Recommended use	: Transmission oil.	

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Chronic aquatic toxicity	: Category 2
GHS Label element Hazard pictograms	
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: H411 Toxic to aquatic life with long lasting effects.
Precautionary statements	 Prevention: P273 Avoid release to the environment. Response: P391 Collect spillage. Storage: No precautionary phrases. Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.

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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.

* 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 (%)
Alkylbenzene		Not Assigned	15 - 20
Polyalkylmethacrylate		Not Assigned	5 - 10
zinc bis(O,O-diisooctyl) bis(dithiophosphate)	zinc bis(O,O- diisooctyl) bis(dithiophosphate)	28629-66-5	2.5 - 5.0
Heterocyclic ether		398141-87-2	1 - 2.4
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 norm conditions.	nal
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 v ter and follow by washing with soap if available. If persistent irritation occurs, obtain medical attention.	va-
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 quantitie are swallowed, however, get medical advice.	S
Most important symptoms and effects, both acute and	: Oil acne/folliculitis signs and symptoms may include forma of black pustules and spots on the skin of exposed areas.	tion

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delayed	Ingestion may result in nausea, vo	omiting and/or diarrhoea.
Protection of first-aiders	: When administering first aid, ensu appropriate personal protective ec incident, injury and surroundings.	
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.

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Additional advice	: For guidance on selection of pe see Chapter 8 of this Safety Dat 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. Must be stored in a diked (bunded) area.
		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

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-	5 mg/m3	US. ACGIH

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able frac- tion))		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 equip	nent	
Respiratory protection	: No respiratory protection conditions of use. In accordance with good tions should be taken the If engineering controls tions to a level which is select respiratory protectific conditions of use a Check with respiratory Where air-filtering resp priate combination of m Select a filter suitable filter	on is ordinarily required under normal od industrial hygiene practices, precau o avoid breathing of material. do not maintain airborne concentra- s adequate to protect worker health, ection equipment suitable for the spe- and meeting relevant legislation. protective equipment suppliers. irators are suitable, select an appro- nask and filter. for the combination of organic gases Type P boiling point >65°C (149°F)].
Hand protection Remarks	gloves approved to rele US: F739) made from a suitable chemical prote gloves Suitability and o usage, e.g. frequency a sistance of glove mate glove suppliers. Contal Personal hygiene is a l Gloves must only be w gloves, hands should b cation of a non-perfum For continuous contact through time of more th 480 minutes where sui short-term/splash prote recognize that suitable may not be available a time maybe acceptable and replacement regim a good predictor of glo dependent on the exact	ith the product may occur the use of evant standards (e.g. Europe: EN374, the following materials may provide ection. PVC, neoprene or nitrile rubber durability of a glove is dependent on and duration of contact, chemical re- rial, dexterity. Always seek advice fror minated gloves should be replaced. key element of effective hand care. forn on clean hands. After using be washed and dried thoroughly. Applie ed moisturizer is recommended. twe recommend gloves with break- nan 240 minutes with preference for > table gloves can be identified. For ection we recommend the same, but gloves offering this level of protection nd in this case a lower breakthrough e so long as appropriate maintenance nes are followed. Glove thickness is no ve resistance to a chemical as it is at composition of the glove material. d be typically greater than 0.35 mm e make and model.
Eye protection	: If material is handled s protective eyewear is r	uch that it could be splashed into eyes ecommended.
Skin and body protection	work clothes.	rdinarily required beyond standard ear chemical resistant gloves.
Protective measures		uipment (PPE) should meet recom- lards. Check with PPE suppliers.
Environmental exposure of	ontrols	
General advice	: Take appropriate meas vant environmental pro	sures to fulfill the requirements of rele- stection legislation. Avoid contamination following advice given in Chapter 6.

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	necessary, prevent undissolved charged to waste water. Waste municipal or industrial waste wa discharge to surface water. Local guidelines on emission lir must be observed for the discha vapour.	water should be treated in a ater treatment plant before nits for volatile substances

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Liquid at room temperature.
Odour	:	Slight hydrocarbon
Odour Threshold	:	Data not available
рН	:	Not applicable
pour point	:	-46 °C / -50 °FMethod: ASTM D97
		-45 °C / -49 °FMethod: ASTM D97
Initial boiling point and boiling range	:	> 280 °C / 536 °Festimated value(s)
Flash point	:	196 °C / 385 °F Method: ASTM D92
		195 °C / 383 °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)
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

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Viscosity Viscosity, dynamic	: Data not available	
Viscosity, kinematic	: 9.08 mm2/s (40.0 °C / 104.0 °F) Method: ASTM D445	
	41.6 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

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

t	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).
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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.

Components:

zinc bis(O,O-diisooctyl) bis(dithiophosphate):

Remarks: Based on available data, the classification criteria are not met.

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.

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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: 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	
<u>Product:</u> Toxicity to fish (Acute toxic- : ity)	Remarks: Expected to be toxic: LL/EL/IL50 1-10 mg/I
Toxicity to daphnia and other : aquatic invertebrates (Acute toxicity)	Remarks: Expected to be toxic: LL/EL/IL50 1-10 mg/I
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Toxicity to algae (Acute toxic- ity)	: Remarks: Expected to be t LL/EL/IL50 1-10 mg/I	oxic:
Toxicity to fish (Chronic toxic- ity)	: Remarks: Data not availab	le
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	: Remarks: Data not availab	le
Toxicity to bacteria (Acute toxicity)	: Remarks: Data not availab	le
Persistence and degradabili	ÿ	
Product:		
Biodegradability		not readily biodegradable. ected to be inherently biodegrada nts that may persist in the enviror
Bioaccumulative potential		
Product: Bioaccumulation	: Remarks: Contains compo cumulate.	nents with the potential to bioac-
Mobility in soil		
Product:		
Mobility		st environmental conditions. b to soil particles and will not be
	Remarks: Floats on water.	
Other adverse effects no data available		
Product:		
Additional ecological informa- tion	expected to be released to Not expected to have ozon	n-volatile components, which are n air in any significant quantities. ne depletion potential, photochem al or global warming potential.
	Poorly soluble mixture. May cause physical fouling	g of aquatic organisms.
		to cause any chronic effects to entrations less than 1 mg/l.

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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 me- thods in compliance with applicable regulations. Do not dispose into the environment, in drains or in water courses
Contaminated packaging :	Dispose in accordance with prevailing regulations, preferably to a recognized collector or contractor. The competence of the collector or contractor should be established beforehand. Disposal should be in accordance with applicable regional, national, and local laws and regulations.
Local legislation Remarks :	Disposal should be in accordance with applicable regional, national, and local laws and regulations.

SECTION 14. TRANSPORT INFORMATION

National Regulations

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

Not regulated as a dangerous good

International Regulation

IATA-DGR	
UN/ID No.	: UN 3082
Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	(Alkylbenzene, C10, C11, C12)
Class	: 9
Packing group	: III
Labels	: 9MI
IMDG-Code	
UN number	: UN 3082
Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	(Alkylbenzene, C10, C11, C12)
Class	: 9
Packing group	: 111
Labels	: 9
Marine pollutant	: yes

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

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 Not applicable Not applicable Not applicable Not applicable 	
: Special Precautions: Refer to C for special precautions which a needs to comply with in connect	user needs to be aware of or
: MARPOL Annex 1 rules apply f	or bulk shipments by sea.
FORMATION	
: No OSHA Hazards	
ning and Community Right-to-Know	Act
ntity	
ain any components with a CERCLA R	
A Petroleum Exclusion, therefore rele	ases to the environment are no
A Petroleum Exclusion, therefore rele	
	 Not applicable Not applicable Not applicable Not applicable Not applicable Special Precautions: Refer to 0 for special precautions which a needs to comply with in connec MARPOL Annex 1 rules apply f IFORMATION No OSHA Hazards ning and Community Right-to-Know ntity ain any components with a CERCLA R

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.

Pennsylvania Right To Know Distillates (pet paraffinic	roleum), hydrotreated heavy 64742-54-7
California Prop 65	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.
The components of this prod EINECS	luct are reported in the following inventories: : All components listed or polymer exempt.
TSCA	: All components listed.
DSL	: All components listed.

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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 doe

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 **BEL = Biological exposure limits** BTEX = Benzene, Toluene, Ethylbenzene, Xylenes CAS = Chemical Abstracts Service CEFIC = European Chemical Industry Council CLP = Classification Packaging and Labelling COC = Cleveland Open-Cup DIN = Deutsches Institut fur Normung DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level DSL = Canada Domestic Substance List EC = European Commission EC50 = Effective Concentration fifty ECETOC = European Center on Ecotoxicology and Toxicology Of Chemicals ECHA = European Chemicals Agency EINECS = The European Inventory of Existing Commercial **Chemical Substances** EL50 = Effective Loading fifty ENCS = Japanese Existing and New Chemical Substances Inventory EWC = European Waste Code GHS = Globally Harmonised System of Classification and Labelling of Chemicals IARC = International Agency for Research on Cancer IATA = International Air Transport Association IC50 = Inhibitory Concentration fifty IL50 = Inhibitory Level fifty IMDG = International Maritime Dangerous Goods INV = Chinese Chemicals Inventory IP346 = Institute of Petroleum test method N° 346 for the determination of polycyclic aromatics DMSO-extractables KECI = Korea Existing Chemicals Inventory LC50 = Lethal Concentration fifty LD50 = Lethal Dose fifty per cent. LL/EL/IL = Lethal Loading/Effective Loading/Inhibitory loading

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	LL50 = Lethal Loading fifty	
	MARPOL = International Conver	ntion for the Prevention of
	Pollution From Ships	
	NOEC/NOEL = No Observed Eff served Effect Level	fect Concentration / No Ob-
	OE_HPV = Occupational Expose PBT = Persistent, Bioaccumulati	
	PICCS = Philippine Inventory of Substances	
	PNEC = Predicted No Effect Cor	ncentration
	REACH = Registration Evaluatio Chemicals	n And Authorisation Of
	RID = Regulations Relating to In gerous Goods by Rail	ternational Carriage of Dan-
	SKIN_DES = Skin Designation	
	STEL = Short term exposure lim	it
	TRA = Targeted Risk Assessme	
	TSCA = US Toxic Substances C	control Act
	TWA = Time-Weighted Average	
	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.