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CTION 1. IDENTIFICATION	ı	
Product name	: Pennzoil Marine Premium Plus C	Dutboard 2-Cycle
Product code	: 001B1147	
Manufacturer or supplie	r's details	
Manufacturer/Supplier	 Shell Oil Products US PO Box 4427 Houston TX 77210-4427 USA 	
SDS Request Customer Service	: (+1) 877-276-7285 :	
Emergency telephone n	umber	
Spill Information	: 877-504-9351	
Health Information	: 877-242-7400	
Recommended use of th	e chemical and restrictions on use	
Recommended use	: Engine oil.	

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS label elements

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

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

Hazardous components

Chemical name	Synonyms	CAS-No.	Concentration (%)
distillates (petroleum), hydrotreated light	Distillates (petrole- um), hydrotreated light	64742-47-8	15 - 25
Distillates (petroleum), hydrotreated light	Distillates (petrole- um), hydrotreated light	64742-47-8	1 - 5
White mineral oil (petrole- um)	White mineral oil (petroleum)	8042-47-5	1 - 3

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

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	: Avoid contact with skin and eyes.
Environmental precautions	: Use appropriate containment to avoid environmental contami- nation. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.
	Local authorities should be advised if significant spillages 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
/ 15	800001004956

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	this Safety Data Sheet.	
SECTION 7. HANDLING AND STO	PRAGE	
Technical measures	: Use local exhaust ventilation if there vapours, mists or aerosols. Use the information in this data she sessment of local circumstances to ate controls for safe handling, storage material.	et as input to a risk as- help determine appropri-
Precautions for safe handling	: Avoid prolonged or repeated contact Avoid inhaling vapour and/or mists. When handling product in drums, sat worn and proper handling equipmer Properly dispose of any contaminate rials in order to prevent fires.	ifety footwear should be it should be used.
Avoidance of contact	: Strong oxidising agents.	
Product Transfer	: This material has the potential to be Proper grounding and bonding proc during all bulk transfer operations.	
Storage		
Other data	: Keep container tightly closed and in place. Use properly labeled and closable c	
	Store at ambient temperature.	
Packaging material	: Suitable material: For containers or steel or high density polyethylene. Unsuitable material: PVC.	container linings, use mild
Container Advice	: Polyethylene containers should not peratures because of possible risk c	

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

Biological occupational exposure limits

No biological limit allocated.

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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 en cific conditions of use and men Check with respiratory protect Where air-filtering respirators priate combination of mask an Select a filter suitable for the o and vapours [Type A/Type P	eting relevant legislation. tive equipment suppliers. are suitable, select an appro- nd filter. combination of organic gases
Hand protection		
Remarks	US: F739) made from the folic suitable chemical protection. F gloves Suitability and durabilit usage, e.g. frequency and dur sistance of glove material, dey glove suppliers. Contaminated Personal hygiene is a key eler Gloves must only be worn on gloves, hands should be wash cation of a non-perfumed mois For continuous contact we red through time of more than 240 480 minutes where suitable gl short-term/splash protection w recognize that suitable gloves may not be available and in th time maybe acceptable so lon	tandards (e.g. Europe: EN374, bwing materials may provide PVC, neoprene or nitrile rubber by of a glove is dependent on ration of contact, chemical re- kterity. Always seek advice from d gloves should be replaced. ment of effective hand care. clean hands. After using ned and dried thoroughly. Appli- sturizer is recommended. commend gloves with break- 0 minutes with preference for > loves can be identified. For ve recommend the same, but offering this level of protection his case a lower breakthrough g as appropriate maintenance followed. Glove thickness is not stance to a chemical as it is osition of the glove material. bically greater than 0.35 mm
Eye protection	: If material is handled such tha protective eyewear is recomm	at it could be splashed into eyes, nended.
Skin and body protection	: Skin protection is not ordinaril work clothes. It is good practice to wear che	
Protective measures	: Personal protective equipmen mended national standards. C	
Environmental exposure c	ontrols	
General advice	of the environment by followin necessary, prevent undissolve charged to waste water. Wast municipal or industrial waste v discharge to surface water. Local guidelines on emission l	legislation. Avoid contamination og advice given in Chapter 6. If ed material from being dis- re water should be treated in a water treatment plant before

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Colour	: amber
Odour	: Slight hydrocarbon
Odour Threshold	: Data not available
рН	: Not applicable
pour point	: -43 °C / -45 °FMethod: Unspecified
Initial boiling point and boiling range	: > 280 °C / 536 °Festimated value(s)
Flash point	: 97 °C / 207 °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	: 0.880 (15 °C / 59 °F)
Density	: 880 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	: 59 mm2/s (40.0 °C / 104.0 °F) Method: ASTM D445	
	9.37 mm2/s (100 °C / 212 °F) Method: ASTM D445	
Explosive properties	: Not classified	
Oxidizing properties	: Data not available	
Conductivity	: This material is not expected to	be a static accumulator.
Decomposition temperature	: Data not available	

SECTION 10. STABILITY AND REACTIVITY

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 routes of exposure

Skin and eye contact are the primary routes of exposure although exposure may occur following accidental ingestion.

Acute toxicity

Product:

<u>i iouuci.</u>	
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
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Remarks: Expected to be of low toxicity:

Skin corrosion/irritation

Product:

Remarks: Expected to be slightly irritating., Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.

Serious eye damage/eye irritation

Product:

Remarks: Expected to be slightly irritating.

Respiratory or skin sensitisation

Product:

Remarks: Not expected to be a skin sensitiser.

Germ cell mutagenicity

Product:

: Remarks: Not considered a mutagenic hazard.

Carcinogenicity

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).

	equal to 0.1% is identified as probable, possible or c human carcinogen by IARC.	confirmed
ACGIH	Confirmed animal carcinogen with unknown relevan mans	ce to hu-
	distillates (petroleum), hy- drotreated light	64742-47-8
	Distillates (petroleum), hy- drotreated light	64742-47-8
OSHA	No component of this product present at levels grea equal to 0.1% is identified as a carcinogen or potent gen by OSHA.	
NTP	No component of this product present at levels grea equal to 0.1% is identified as a known or anticipated 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: 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	
<u>Product:</u> Toxicity to fish (Acute toxici- ty)	: 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 tox- icity)		Remarks: Expected to be practic LL/EL/IL50 > 100 mg/l	ally non toxic:
Toxicity to fish (Chronic tox- icity)	:	Remarks: Data not available	
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	Remarks: Data not available	
Toxicity to bacteria (Acute toxicity)	:	Remarks: Data not available	
Persistence and degradabili	ty		
Product:			
Biodegradability		Remarks: Expected to be not rea Major constituents are expected ble, but contains components that ment.	to be inherently biodegra
Bioaccumulative potential			
Product: Bioaccumulation		Remarks: Contains components cumulate.	with the potential to bioad
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 infor- mation		Product is a mixture of non-volat expected to be released to air in Not expected to have ozone dep cal ozone creation potential or gl	any significant quantities letion potential, photoche
		Poorly soluble mixture. May cause physical fouling of aq	

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Mineral oil is not expected to cause any chronic effects to aquatic organisms at concentrations less than 1 mg/l.

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	. Not applicable

Remarks

:	Special Precautions: Refer to Chapter 7, Handling & Storage,
	for special precautions which a user needs to be aware of or
	needs to comply with in connection with transport.

Additional Information : MARPOL Annex 1 rules apply for bulk shipments by sea.

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SECTION 15. REGULATORY INFORMATION

OSHA Hazards : No OSHA Hazards

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

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Xylene, Mixed Isomers	1330-20-7	100	*
Ethylbenzene	100-41-4	1000	*
Ethylbenzene	100-41-4	100	*

*: Calculated RQ exceeds reasonably attainable upper limit.

CERCLA Reportable Quantity

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

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

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

Xylene, mixed isomers	1330-20-7	0.04 %
Ethylbenzene	100-41-4	0.007 %

Pennsylvania Right To Know	
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0
distillates (petroleum), hydrotreated light	64742-47-8
Distillates (petroleum), hydrotreated light	64742-47-8
White mineral oil (petroleum)	8042-47-5
Xylene, mixed isomers	1330-20-7

California Prop 65	WARNING! This product contains a chemical known to the
	State of California to cause cancer.

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

EINECS : All components listed or polymer 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.

1	15		800001004956
1	15	GHS = Globally Harmonised System of Classific Labelling of Chemicals IARC = International Agency for Research on C IATA = International Air Transport Association IC50 = Inhibitory Concentration fifty IL50 = Inhibitory Level fifty IMDG = International Maritime Dangerous Good INV = Chinese Chemicals Inventory IP346 = Institute of Petroleum test method N° determination of polycyclic aromatics DMSO-ex KECI = Korea Existing Chemicals Inventory	ancer ds 346 for the tractables
		ENCS = Japanese Existing and New Chemical Inventory EWC = European Waste Code GHS = Globally Harmonised System of Classific	
		gy Of Chemicals ECHA = European Chemicals Agency EINECS = The European Inventory of Existing (Chemical Substances EL50 = Effective Loading fifty	Commercial
		DNEL = Derived No Effect Level DSL = Canada Domestic Substance List EC = European Commission EC50 = Effective Concentration fifty ECETOC = European Center on Ecotoxicology	and Toxicolo-
		BEL = Biological exposure limits BTEX = Benzene, Toluene, Ethylbenzene, Xyle 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	
		ACGIH = American Conference of Governments Hygienists ADR = European Agreement concerning the Int Carriage of Dangerous Goods by Road AICS = Australian Inventory of Chemical Substa ASTM = American Society for Testing and Mate	ernational
	Abbreviations and Acronyms :	The standard abbreviations and acronyms used ment can be looked up in reference literature (e dictionaries) and/or websites.	

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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	ntion for the Prevention of
	NOEC/NOEL = No Observed Ef served Effect Level	fect Concentration / No Ob-
	OE_HPV = Occupational Exposi PBT = Persistent, Bioaccumulat	
	PICCS = Philippine Inventory of Substances	Chemicals and Chemical
	PNEC = Predicted No Effect Co	
	REACH = Registration Evaluatic Chemicals	on 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	
	TRA = Targeted Risk Assessme TSCA = US Toxic Substances C	
	TWA = Time-Weighted Average	
	vPvB = very Persistent and very	
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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.