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SECTION 1. IDENTIFICATION		
Product name	: Pennzoil Ultra Platinum 0W-20	
Product code	: 001F2315	
Manufacturer or supplier's	details	
Manufacturer/Supplier	 Shell Oil Products US PO Box 4427 Houston TX 77210-4427 USA 	
SDS Request	: (+1) 877-276-7285	
Customer Service	:	
Emergency telephone num		
Spill Information Health Information	: 877-504-9351 : 877-242-7400	
	. 0//-242-/400	
	hemical and restrictions on use	
Recommended use	: Engine oil.	

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS Label element

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

Other hazards which do not result in classification

Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.

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Used oil may contain harmful impurities. Not classified as flammable but will burn.

The classification of this material is based on OSHA HCS 2012 criteria.

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

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

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

Hazardous components

Chemical Name	Synonyms	CAS-No.	Concentration (%)
Alkylated phenol ester		125643-61-0	1 - 3
Distillates (Fischer - Trop- sch), heavy, C18-50 – branched, cyclic and linear	Distillates (Fischer- Tropsch), heavy, C18-50-branched, cyclic and linear	848301-69-9	60 - 80

SECTION 4. FIRST-AID MEASURES

General advice	Not expected to be a health hazard when used conditions.	under normal
If inhaled	No treatment necessary under normal condition If symptoms persist, obtain medical advice.	s of use.
In case of skin contact	Remove contaminated clothing. Flush exposed ter and follow by washing with soap if available. If persistent irritation occurs, obtain medical atte	
In case of eye contact	Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical atte	ntion.
If swallowed	In general no treatment is necessary unless larg are swallowed, however, get medical advice.	e quantities
Most important symptoms and effects, both acute and delayed	Oil acne/folliculitis signs and symptoms may inc of black pustules and spots on the skin of expos Ingestion may result in nausea, vomiting and/or	ed areas.

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Protection of first-aiders	: When administering first aid, ensur appropriate personal protective equincident, 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 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.

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Additional advice	: For guidance on selection of pe see Chapter 8 of this Safety Da For guidance on disposal of spi 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

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

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

No respiratory protection is ordinarily required under normal conditions of use.

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	In accordance with good industri tions should be taken to avoid br If engineering controls do not ma tions to a level which is adequate select respiratory protection equi cific conditions of use and meetin Check with respiratory protective Where air-filtering respirators are priate combination of mask and the Select a filter suitable for the con and vapours [Type A/Type P bo	reathing of material. aintain airborne concentra- e to protect worker health, ipment suitable for the spe- ng relevant legislation. e equipment suppliers. e suitable, select an appro- filter. nbination of organic gases
Hand protection		
Remarks	: Where hand contact with the pro- gloves approved to relevant stan US: F739) made from the followi suitable chemical protection. PV/ gloves Suitability and durability of usage, e.g. frequency and durati sistance of glove material, dexte glove suppliers. Contaminated g Personal hygiene is a key eleme Gloves must only be worn on cle gloves, hands should be washed cation of a non-perfumed moistu For continuous contact we recon through time of more than 240 m 480 minutes where suitable glove short-term/splash protection we re cognize that suitable gloves of may not be available and in this time maybe acceptable so long a and replacement regimes are fol a good predictor of glove resistan dependent on the exact composi Glove thickness should be typica	adards (e.g. Europe: EN374, ng materials may provide C, neoprene or nitrile rubber of a glove is dependent on on of contact, chemical re- rity. Always seek advice from loves should be replaced. ent of effective hand care. ean hands. After using and dried thoroughly. Appli- rizer 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 lowed. 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	: Skin protection is not ordinarily rework clothes. It is good practice to wear chemi	
Protective measures	: Personal protective equipment (I mended national standards. Che	
Environmental exposure of	controls	
General advice	: Take appropriate measures to fur vant environmental protection leg of the environment by following a necessary, prevent undissolved charged to waste water. Waste w municipal or industrial waste wate discharge to surface water.	gislation. Avoid contaminatio advice given in Chapter 6. If material from being dis- vater should be treated in a

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	Local guidelines on emission lin must be observed for the discha vapour.	

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: Unspecified
Initial boiling point and boiling range	: > 280 °C / 536 °Festimated value(s)
Flash point	: 208 °C / 406 °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	: 0.846 (15 °C / 59 °F)
Density	: 846 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

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Viscosity Viscosity, dynamic	: Data not available	
Viscosity, kinematic	: 42.8 mm2/s (40.0 °C / 104.0 °F) Method: Unspecified	
Explosive properties	: Not classified	
Oxidizing properties	: Data not available	
Conductivity	: This material is not expected to b	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 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:		
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.

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

a developmental toxicant.

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STOT - single exposure

Product:

Remarks: Not expected to be a hazard.

STOT - repeated exposure

Product:

Remarks: Not expected to be a hazard.

Aspiration toxicity

Product:

Not considered an aspiration hazard.

Further information

Product:

Remarks: Used oils may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and the environment on disposal., ALL used oil should be handled with caution and skin contact avoided as far as possible.

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

Remarks: Slightly irritating to respiratory system.

SECTION 12. ECOLOGICAL INFORMATION

Basis for assessment	 Ecotoxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the ecotoxicology of similar products. Unless indicated otherwise, the data presented is representa- tive of the product as a whole, rather than for individual com- ponent(s).(LL/EL/IL50 expressed as the nominal amount of product required to prepare aqueous test extract).
Ecotoxicity	
Product: Toxicity to fish (Acute toxici- ty)	: 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 tox- icity)	: Remarks: Expected to be practically non toxic: LL/EL/IL50 > 100 mg/l
Toxicity to fish (Chronic tox-	: Remarks: Data not available
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icity)		
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	: Remarks: Data not ava	ilable
Toxicity to bacteria (Acute toxicity)	: Remarks: Data not ava	ilable
Persistence and degradability	/	
Product:		
Biodegradability	Major constituents are	be not readily biodegradable. expected to be inherently biodegrada onents that may persist in the environ
Bioaccumulative potential		
Product:		
Bioaccumulation	: Remarks: Contains con cumulate.	nponents with the potential to bioac-
Mobility in soil		
Product:		
Mobility		most environmental conditions. sorb to soil particles and will not be
	Remarks: Floats on wa	ter.
Other adverse effects		
no data available		
Product:		
Additional ecological infor- mation	expected to be released Not expected to have o	non-volatile components, which are r d to air in any significant quantities. zone depletion potential, photochemi ntial or global warming potential.
	Poorly soluble mixture. May cause physical fou	ling of aquatic organisms.

Disposal methous	
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,
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	national, and local laws and regu Local regulations may be more s tional requirements and must be	tringent than regional or na-
Contaminated packaging	: Dispose in accordance with prev to a recognized collector or contr the collector or contractor should Disposal should be in accordanc national, and local laws and regu	actor. The competence of be established beforehand. e with applicable regional,

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

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

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Ethylene Glycol	107-21-1	5000	*

*: Calculated RQ exceeds reasonably attainable upper limit.

CERCLA Reportable Quantity

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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

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 (petroleum), solvent-refined light paraffinic	64741-89-5
Distillates (petroleum), solvent-dewaxed	64742-65-0
heavy paraffinic Distillates (petroleum), solvent-dewaxed	64742-65-0
heavy paraffinic	04742-03-0
Ethanediol	107-21-1

California Prop 65This 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.		
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.

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

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		ADR = European Agreement concerning the International	
	Carriage of Dangerous Goods b		
	AICS = Australian Inventory of C		
	ASTM = American Society for T		
	BEL = Biological exposure limits		
	BTEX = Benzene, Toluene, Eth CAS = Chemical Abstracts Serv		
	CEFIC = European Chemical In		
	CLP = Classification Packaging		
	COC = Cleveland Open-Cup		
	DIN = Deutsches Institut fur Nor	mung	
	DMEL = Derived Minimal Effect		
	DNEL = Derived No Effect Leve		
	DSL = Canada Domestic Subst	ance List	
	EC = European Commission	£.4. ,	
	EC50 = Effective Concentration ECETOC = European Center or		
	gy Of Chemicals	TEORORICOLOGY and TOXICOLO-	
	ECHA = European Chemicals A	aency	
	EINECS = The European Invent		
	Chemical Substances	, ,	
	EL50 = Effective Loading fifty		
	ENCS = Japanese Existing and	New Chemical Substances	
	Inventory		
	EWC = European Waste Code	store of Oleonification and	
	GHS = Globally Harmonised Sy Labelling of Chemicals	stem of Classification and	
	IARC = International Agency for	Research on Cancer	
	IATA = International Air Transpo		
	IC50 = Inhibitory Concentration		
	IL50 = Inhibitory Level fifty	-	
	IMDG = International Maritime		
	INV = Chinese Chemicals Inven		
	IP346 = Institute of Petroleum		
	determination of polycyclic aron KECI = Korea Existing Chemica		
	LC50 = Lethal Concentration fift		
	LD50 = Lethal Dose fifty per cer		
	LL/EL/IL = Lethal Loading/Effec		
	LL50 = Lethal Loading fifty	S S	
	MARPOL = International Conve	ntion for the Prevention of	
	Pollution From Ships		
	NOEC/NOEL = No Observed Et	ffect Concentration / No Ob-	
	served Effect Level	une Lligh Dreduction \ (aluma	
	OE_HPV = Occupational Expos PBT = Persistent, Bioaccumulat		
	PICCS = Philippine Inventory of		
	Substances		
	PNEC = Predicted No Effect Co	ncentration	
	REACH = Registration Evaluation		
	Chemicals		
	RID = Regulations Relating to Ir	nternational Carriage of Dan-	
	gerous Goods by Rail		
	SKIN_DES = Skin Designation		
	STEL = Short term exposure lim	. : 1	

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	TSCA = US Toxic Substances (TWA = Time-Weighted Average vPvB = very Persistent and very	2
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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.