

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of issue: 14/06/2012 Revision date: 06/06/2017 Supersedes: 06/06/2017 Version: 1.1

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Product name : MATIC DX VI
Product code : 210047
Type of product : Lubricants
Product group : Blend

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial

For professional use only
: Lubricants and additives

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

UNIL LUBRICANTS NV Bergensesteenweg 713

Function or use category

1600 Sint - Pieters - Leeuw - Belgique-Belgie

T 0032 02 365 02 00 info@unil.com - www.unil.be

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Cardiff Centre) Gwenwyn Ward, Llandough Hospital	Penarth CF64 2XX Cardiff	0344 892 0111	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Aquatic Chronic 3 H412

Full text of hazard classes and H-statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Signal word (CLP) : -

Hazard statements (CLP) : H412 - Harmful to aquatic life with long lasting effects

Precautionary statements (CLP) : P273 - Avoid release to the environment

P501 - Dispose of contents and container to a hazardous or special waste collection point

EUH-statements : EUH208 - Contains 4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate. May produce an

allergic reaction

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Distillates (petroleum), hydrotreated heavy paraffinic	(CAS-No.) 64742-54-7 (EC-No.) 265-157-1 (EC Index-No.) 649-467-00-8 (REACH-no) 01-2119484627-25	50 - 80	Asp. Tox. 1, H304
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil- based	(CAS-No.) 72623-87-1 (EC-No.) 276-738-4 (EC Index-No.) 649-483-00-5 (REACH-no) 01-2119474889-13	25 - 50	Asp. Tox. 1, H304
reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4- hydroxyphenyl)propionate	(CAS-No.) 125643-61-0 (EC-No.) 406-040-9 (EC Index-No.) 607-530-00-7 (REACH-no) 01-0000015551-76, 01- 2119864287-27, 01-2119878226-29	0,1 - 1	Aquatic Chronic 4, H413
Reaction product of alkylthioalcohol and substituted phosphorus compound	(EC-No.) 424-820-7 (REACH-no) 01-0000017126-75	0,1 - 1	Skin Corr. 1B, H314 Acute Tox. 4 (Dermal), H312 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 (M=10)
4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate	(CAS-No.) 93882-40-7 (EC-No.) 299-434-3	<1	Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Distillates (petroleum), hydrotreated light naphthenic substance with national workplace exposure limit(s) (GB)	(CAS-No.) 64742-53-6 (EC-No.) 265-156-6 (EC Index-No.) 649-466-00-2	< 0,1	Asp. Tox. 1, H304

Full text of H-statements: see section 16

SECTION 4: First aid measures

Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice (show the label where possible). Never give anything by

mouth to an unconscious person.

First-aid measures after inhalation : When symptoms occur: go into open air and ventilate suspected area. Rinse skin with water/shower. Wash contaminated clothing before reuse. First-aid measures after skin contact

First-aid measures after eye contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

First-aid measures after ingestion : Call a POISON CENTER or doctor/physician if you feel unwell.

Most important symptoms and effects, both acute and delayed

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/effects after inhalation : None under normal use.

Symptoms/effects after skin contact : Contact during a long period may cause light irritation.

Symptoms/effects after eye contact : May cause slight irritation.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Fire-fighting measures

Extinguishing media

: AFFF foam. Suitable extinguishing media

Unsuitable extinguishing media : When cooling/extinguishing: no water in the substance.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Combustible product. Explosion hazard : Not applicable.

Reactivity in case of fire : Decomposes on exposure to temperature rise: release of harmful/irritant gases/vapours.

Hazardous decomposition products in case of : Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.

5.3. **Advice for firefighters**

Precautionary measures fire : Post warning notices (including no smoking). Avoid ignition sources. No open flames, no

sparks, and no smoking.

Firefighting instructions : Evacuate area

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Other information : Use water spray or fog for cooling exposed containers.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Relevant water authorities should be notified of any large spillage to water course or drain.

Practice good housekeeping - spillage can be slippery on smooth surface either wet or dry.

6.1.1. For non-emergency personnel

Protective equipment : Concerning personal protective equipment to use, see section 8. Wear suitable protective

clothing and gloves.

Emergency procedures : Soak up with inert absorbent material (for example sand, sawdust, a universal binder, silica

gel).

Measures in case of dust release : Not applicable.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Clean up any spills as soon as possible, using an absorbent material to collect it.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Clean up any spills as soon as possible, using an absorbent material to collect it. Collect all

waste in suitable and labelled containers and dispose according to local legislation.

Other information : May be dangerously slippery if spilled.

6.4. Reference to other sections

For disposal of residues refer to section 13: Disposal considerations" ". Concerning personal protective equipment to use, see section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Combustible product.

Precautions for safe handling : Use personal protective equipment as required. Do not get in eyes, on skin, or on clothing. No

open flames. No smoking.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.

Storage conditions : Store in original container. Keep container closed when not in use. Store in a dry, well

ventilated place away from sources of heat, ignition and direct sunlight. Keep in fireproof place.

Incompatible products : See Heading 10. Strong bases. Strong acids.
Incompatible materials : See Heading 10. Sources of ignition. Direct sunlight.

Heat and ignition sources : No flames, no sparks. Eliminate all sources of ignition.

Information on mixed storage : Oxidation agents.

Storage area : Store away from heat. Floors should be impervious, resistant to liquids and easy to clean.

Special rules on packaging : Keep only in original container.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)		
United Kingdom	WEL TWA (mg/m³)	5 mg/m³
United Kingdom	WEL STEL (mg/m³)	10 mg/m³

8.2. Exposure controls

Personal protective equipment:

Avoid all unnecessary exposure.

Materials for protective clothing:

Separate working clothes from town clothes. Launder separately

Hand protection:

protective gloves

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Eye protection:

Eye protection should only be necessary where liquid could be splashed or sprayed

Skin and body protection:

Rinse and then wash skin thoroughly with water and soap

Respiratory protection:

Avoid the formation of mists in the atmosphere. If this material is handled at elevated temperature or under mist forming conditions, approved respiratory protection equipment should be used

: colourless to yellow.

: characteristic.

Other information:

Colour

Odour

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Oily.

Odour threshold : No data available No data available рΗ : Not applicable pH solution : Not applicable : No data available Relative evaporation rate (butylacetate=1) Relative evaporation rate (ether=1) No data available Melting point No data available Freezing point : No data available Boiling point : No data available

Flash point : 180 °C

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Flammability (solid, gas) : Combustible product

Vapour pressure : < 0,01 mm Hg

Relative vapour density at 20 °C : No data available

Relative density : 0,847

Solubility : Material insoluble in water. soluble in most organic solvents.

Log Pow : No data available
Log Kow : No data available

Viscosity, kinematic : 29 cSt

Viscosity, dynamic : No data available

Explosive properties : Heating may cause a fire. Not classified as explosive according to EC criteria, but may present

risks in the event of a fire.

Oxidising properties : Not applicable.

Explosive limits : No data available

9.2. Other information

Additional information : At or above flash point, vapours present may burn in open or explode if confined when mixed with air and exposed to ignition source

SECTION 10: Stability and reactivity

10.1. Reactivity

No decomposition if stored normally.

10.2. Chemical stability

Combustible product. Stable at ambient temperature and under normal conditions of use. Not established.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

All heat sources. Sparks. Open flame. Direct sunlight. Extremely high or low temperatures.

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10.5. Incompatible materials

Strong oxidizers.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)		
LD50 oral rat	> 5000 mg/kg (OECD 420 method)	
LD50 dermal rabbit	> 2000 mg/kg (OECD 402 method)	
LC50 inhalation rat (mg/l)	> 5,53 mg/l/4h (mg/L air, aerosol) (OECD 403 method)	

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1)	
LD50 oral rat	> 5000 mg/kg (OECD 401 method)
LD50 dermal rabbit	> 2000 mg/kg (OECD 402 method)
LC50 inhalation rat (mg/l)	2,18 mg/l/4h (OECD 403 method)

reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate (125643-61-0)	
LD50 oral rat	> 2000 mg/kg (OECD 401 method)
LD50 dermal rat	> 2000 mg/kg (OECD 402 method)

Reaction product of alkylthioalcohol and substituted phosphorus compound	
LD50 oral	> 2000 mg/kg (Dir 67/548/EEG, Annex V, B.1.)
LD50 dermal	> 500 mg/kg (Dir 67/548/EEG, Annex V, B.3.)

Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (Dust/Mist - mg/l/4h)	2,18 mg/l/4h

Skin corrosion/irritation : Not classified pH: Not applicable

Additional information : Based on available data, the classification criteria are not met

Serious eye damage/irritation : Not classified

pH: Not applicable

Additional information : Based on available data, the classification criteria are not met

Respiratory or skin sensitisation : Not classified

Additional information : Based on available data, the classification criteria are not met

Germ cell mutagenicity : Not classified

Additional information : Based on available data, the classification criteria are not met

Carcinogenicity : Not classified

Additional information : Based on available data, the classification criteria are not met

Reproductive toxicity : Not classified

Additional information : Based on available data, the classification criteria are not met

STOT-single exposure : Not classified

Additional information : Based on available data, the classification criteria are not met

STOT-repeated exposure : Not classified

Additional information : Based on available data, the classification criteria are not met

Aspiration hazard : Not classified

MATIC DX VI	
Viscosity, kinematic	29 mm²/s

Potential adverse human health effects and

symptoms

: Not classified as dangerous preparation/substance.

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SECTION 12: Ecological information

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SECTION 12: Ecological information		
12.1. Toxicity		
Ecology - water :	Harmful to aquatic life with long lasting effects.	
Acute aquatic toxicity :	Not classified	
Chronic aquatic toxicity :	Harmful to aquatic life with long lasting effects.	
Distillator (natural arms) hardwarfun ata dibi a armana		
Distillates (petroleum), hydrotreated heavy pa		
LC50 fish 1	> 100 mg/l (Pimephales promelas, 96h) (OECD 203 method)	
EC50 Daphnia 1	> 10000 mg/l (Gammarus pulex, 48h) (OECD 202 method)	
EC50 Daphnia 2	> 10000 mg/l (Daphnia magna, 48h) (OECD 202 method)	
NOEC (acute) NOEC chronic fish	>= 100 mg/l (Pseudokirchnerella subcapitata, 72h) (OECD 201 method) >= 1000 mg/l (Oncorhynchus mykiss - QSAR Petrotox, 14/28d)	
NOEC chronic crustacea	10 mg/l (Daphnia magna, 21d) (OECD 211 method)	
Lubricating oils (petroleum), C20-50, hydrotre	· · · · ·	
LC50 fish 1	> 100 mg/l (Pimephales promelas, 96h) (OECD 203 method)	
LC50 other aquatic organisms 1	> 10000 mg/l (Gammarus pulex, 48h) (OECD 202 method)	
NOEC (acute)	>= 100 mg/l (Pseudokirchnerella subcapitata, 72h) (OECD 201 method)	
	di-tert-butyl-4-hydroxyphenyl)propionate (125643-61-0)	
LC50 fish 1	> 100 mg/l (Oncorhynchus mykiss, 14d) (OECD 204 method)	
LC50 other aquatic organisms 1	> 74 mg/l Danio rerio (zebra fish), 96h	
EC50 Daphnia 1	> 100 mg/l (Daphnia magna, 48h) (OECD 202 method)	
EC50 72h algae (1)	> 3 mg/l (Desmodesmus subspicatus, 72h) (OECD 201 method)	
NOEC (acute)	>= 3 mg/l (Desmodesmus subspicatus, 72h) (OECD 201 method)	
NOEC chronic fish	>= 0,001 mg/l (Danio rerio, 36d) (OECD 210 method)	
NOEC chronic crustacea	>= 1 mg/l (Daphnia magna, 21d) (OECD 211 method)	
Reaction product of alkylthioalcohol and subs	tituted phosphorus compound	
LC50 fish 1	1,5 mg/l (Oncorhynchus mykiss, 96h, OECD 203)	
EC50 Daphnia 1	0,09 mg/l (Daphnia magna, 48h, OECD 202)	
ErC50 (algae)	0,31 mg/l (Pseudokirchneriella subcapitata, 72h, 67/548/EEG Annex V C.3)	
NOEC chronic algae	0,14 mg/l (Daphnia, 21d)	
Distillates (petroleum), hydrotreated light napl	nthenic (64742-53-6)	
LC50 fish 1	> 5000 mg/l (96h)	
EC50 Daphnia 1	> 1000 mg/l (Daphnia magna, 48h)	
ErC50 (algae)	> 1000 mg/l (96h)	
12.2. Persistence and degradability		
MATIC DX VI		
Persistence and degradability	May cause long-term adverse effects in the environment.	
4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate (93882-40-7)		
Persistence and degradability	Not readily biodegradable.	
Distillates (petroleum), hydrotreated heavy pa	raffinic (64742-54-7)	
Biodegradation	31 % (28d) (OECD 301F method)	
Lubricating oils (petroleum), C20-50, hydrotre	ated neutral oil-based (72623-87-1)	
Biodegradation	31 % (28d) (OECD 301F method)	
	di-tert-butyl-4-hydroxyphenyl)propionate (125643-61-0)	
	Not readily biodegradable.	
Persistence and degradability	, ,	
Reaction product of alkylthioalcohol and subs		
Biodegradation	52,9 % (60d, OECD 301 B)	
Distillates (petroleum), hydrotreated light nap		
Persistence and degradability	Not readily biodegradable.	
Biodegradation	6 % (28d)	
12.3. Bioaccumulative potential		
MATIC DX VI		
Log Pow	No data available	
Log Kow	No data available	
Bioaccumulative potential	Not established.	
Biodegradation 12.3. Bioaccumulative potential MATIC DX VI Log Pow Log Kow	6 % (28d) No data available No data available	

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4,4'-thiodiethylene hydrogen -2-octadecenylsuccinate (93882-40-7)		
Bioaccumulative potential	Bioaccumulative potential.	
reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate (125643-61-0)		
Bioconcentration factor (BCF REACH)	260 (Oncorhynchus mykiss, 35d) (OECD 305 method)	
Log Pow	9,2	
Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)		
Log Pow	3,9 - 6	
12.4 Mobility in soil		

12.4. Mobility in soil

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1)			
Mobility in soil Product adsorbs onto the soil			
reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate (125643-61-0)			
Ecology - soil	Product adsorbs little onto the soil.		

12.5. Results of PBT and vPvB assessment

MATIC DX VI				
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII				
This substance/mixture does not meet the vPvB	criteria of REACH regulation, annex XIII			
Component				
reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate (125643-61-0)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII			
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII			

12.6. Other adverse effects

Additional information : Avoid release to the environment

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)

: Disposal must be done according to official regulations.

Waste treatment methods

: Recycling is preferred to disposal or incineration. Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. Take up liquid spill into absorbent material, e.g.: sand/earth.

Product/Packaging disposal recommendations

: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Ecology - waste materials : Empty containers should be taken for recycling, recovery or waste in accordance with local

regulation.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Dangerous for the	Dangerous for the	Dangerous for the	Dangerous for the	Dangerous for the
environment : No	environment : No Marine pollutant : No	environment : No	environment : No	environment : No
No supplementary information available				

14.6. Special precautions for user

Special transport precautions : Not regulated or not hazardous

- Overland transport

Transport regulations (ADR) : Not subject

- Transport by sea

Transport regulations (IMDG) : Not subject

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- Air transport

No data available

- Inland waterway transport

No data available

- Rail transport

Transport regulations (RID) : Not subject

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

The substance is not hazardous

SECTION 16: Other information

Indication of changes:

Section	Changed item	Change	Comments
	Revision date	Modified	
	Supersedes	Modified	
2.2	Precautionary statements (CLP)	Modified	
2.2	EUH-statements	Added	

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending

Regulation (EC) No 1907/2006.

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.

Other information : None.

Full text of H- and EUH-statements:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4	
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1	
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1	
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3	
Aquatic Chronic 4	Hazardous to the aquatic environment — Chronic Hazard, Category 4	
Asp. Tox. 1	Aspiration hazard, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Skin Corr. 1B	Skin corrosion/irritation, Category 1B	
Skin Sens. 1	Skin sensitisation, Category 1	
H304	May be fatal if swallowed and enters airways	
H312	Harmful in contact with skin	
H314	Causes severe skin burns and eye damage	
H317	May cause an allergic skin reaction	
H319	Causes serious eye irritation	
H400	Very toxic to aquatic life	
H410	Very toxic to aquatic life with long lasting effects	
H412	Harmful to aquatic life with long lasting effects	
H413	May cause long lasting harmful effects to aquatic life	
EUH208	Contains . May produce an allergic reaction	

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SDS EU (REACH Annex II)

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

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