



04000HM

# Motor Oil 10W-40 Semi Synthetic Higher Mileage

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830  
Issue date: 12-11-2019 Revision date: 27-11-2020 Supersedes: 26-10-2020 version: 5.3

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : Motor Oil 10W-40 Semi Synthetic Higher Mileage  
Product code : 04000HM

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

##### 1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use, Consumer use  
Use of the substance/mixture : Automotive care products  
Function or use category : Lubricants and additives

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

MPM International Oil Company  
Cyclotronweg 1  
2629 HN Delft Delft - Nederland  
T +31 (0)15 2514030 - F +31 (0)15 2514031  
[msds@mpmoil.nl](mailto:msds@mpmoil.nl) - [www.mpmoil.nl](http://www.mpmoil.nl)

#### 1.4. Emergency telephone number

Emergency number : +31 (0)15 2514030 (08.00 - 17.00 GMT+1)

Country	Official advisory body	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	: +353 1 8379964	
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188	

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Hazardous to the aquatic environment — Chronic Hazard, Category 3 H412

Full text of 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]

CLP Signal word : -  
Hazardous ingredients : Dodecylphenol, mixed isomers (branched)  
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 an approved waste disposal plant.  
EUH-statements : EUH210 - Safety data sheet available on request.

#### 2.3. Other hazards

No additional information available

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Comments : Highly refined mineral oil, contains <3% (w / w) DMSO extract, according to IP346

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy)derivs., C10-rich	(CAS-No.) 398141-87-2 (EC-No.) 800-172-4 (REACH-no) 01-2119969520-35	5 – 25	Aquatic Chronic 2, H411
Base oil - not specified	(CAS-No.) 64742-54-7 (EC-No.) 265-157-1 (EC Index-No.) 649-467-00-8 (REACH-no) 01-2119484627-25	2,5 – 10	Asp. Tox. 1, H304
Phosphorodithioic acid, mixed 0,0-bis(1,3-dimethylbutyl and iso-Pr)esters, zinc salts	(CAS-No.) 84605-29-8 (EC-No.) 283-392-8 (REACH-no) 01-2119493626-26	≤ 2,5	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411
Dodecylphenol, mixed isomers (branched)	(CAS-No.) 121158-58-5 (EC-No.) 310-154-3 (EC Index-No.) 604-092-00-9 (REACH-no) 01-2119513207-49	≤ 1	Skin Corr. 1C, H314 Eye Dam. 1, H318 Repr. 1B, H360F STOT RE 1, H372 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)

### Specific concentration limits:

Name	Product identifier	Specific concentration limits
Phosphorodithioic acid, mixed 0,0-bis(1,3-dimethylbutyl and iso-Pr)esters, zinc salts	(CAS-No.) 84605-29-8 (EC-No.) 283-392-8 (REACH-no) 01-2119493626-26	( 6,25 ≤C < 100) Skin Irrit. 2, H315 ( 10 ≤C < 12,5) Eye Irrit. 2, H319 ( 12,5 ≤C < 100) Eye Dam. 1, H318

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

General	: Get medical advice/attention if you feel unwell. If medical advice is needed, have product container or label at hand. SYMPTOMS MAY BE DELAYED.
After inhalation	: Get medical advice/attention if you feel unwell. Remove to fresh air and keep at rest in a position comfortable for breathing.
After skin contact	: Take off contaminated clothing. Rinse skin with water/shower.
After eye contact	: Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.
After ingestion	: Do not induce vomiting. Rinse mouth out with water. Immediately call a POISON CENTER/doctor.

### 4.2. Most important symptoms and effects, both acute and delayed

After ingestion	: Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis.
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### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Dry chemical, CO2, or water spray or regular foam.
Unsuitable extinguishing media	: Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

No additional information available

### 5.3. Advice for firefighters

Precautionary measures fire	: Do not enter fire area without proper protective equipment, including respiratory protection.
Other information	: Exercise caution when fighting any chemical fire.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Protective equipment	: Wear suitable protective clothing and gloves.
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#### 6.1.2. For emergency responders

Protective equipment	: Wear suitable protective clothing and gloves.
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### 6.2. Environmental precautions

Notify authorities if product enters sewers or public waters. Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

- For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
- Methods for cleaning up : Absorb remaining liquid in sand or inert absorbent and remove to safe place.
- Other information : If spilled, may cause the floor to be slippery.

### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13. Information on safe handling - see Section 7.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Precautions for safe handling : Eliminate all ignition sources if safe to do so.
- Handling temperature : < 40 °C
- Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

### 7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Store in a well-ventilated place. Keep container tightly closed.
- Storage temperature : < 40 °C
- Storage area : Store in a well-ventilated place.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Base oil - not specified (64742-54-7)

EU	IOELV TWA (mg/m³)	5 mg/m³ 8 h/day
Germany	TRGS 910 Acceptable concentration notes	

Additional information : Based on ACGIH TLV, a concentration of 5 mg/m³ oilspray (TWA, 8 hour workday) is recommended.

### 8.2. Exposure controls

#### Technical measures:

Ensure good ventilation of the work station.

#### Personal protective equipment:

Gloves. Safety glasses.

#### Materials for protective clothing:

Wear suitable protective clothing, gloves and eye/face protection

#### Hand protection:

In case of repeated or prolonged contact wear gloves

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
	Nitrile rubber (NBR)	6 (> 480 minutes)	>0.35		

#### Eye protection:

Safety goggles

#### Skin and body protection:

No special clothing/skin protection equipment is recommended under normal conditions of use

#### Respiratory protection:

In case of inadequate ventilation wear respiratory protection.

#### Personal protective equipment symbol(s):



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### Environmental exposure controls:

Avoid release to the environment.

### Other information:

Do not eat, drink or smoke when using this product.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Oily.
Colour	: amber.
Odour	: characteristic.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 110 °C ASTM D 92
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 880 g/l @ 20°C
Solubility	: Slightly soluble, the product remains on the water surface.
Log Pow	: No data available
Viscosity, kinematic	: 86 mm²/s @ 100°C
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

None under normal conditions.

### 10.2. Chemical stability

The product is stable at normal handling and storage conditions.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

None under normal conditions.

### 10.5. Incompatible materials

acids and bases. Oxidizing agent.

### 10.6. Hazardous decomposition products

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, nitrogen oxides (NOx), NH<sub>3</sub>, sulphur compounds.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

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

### Base oil - not specified (64742-54-7)

LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 2000 mg/kg

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LD50 dermal rabbit	> 3000 mg/kg
LC50 Inhalation - Rat	> 5 mg/l/4h

### Phosphorodithioic acid, mixed 0,0-bis(1,3-dimethylbutyl and iso-Pr)esters, zinc salts (84605-29-8)

LD50 oral rat	3150 mg/kg OECD 401
LD50 dermal rat	> 2002 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LD50 dermal rabbit	≥ 2000 mg/kg OECD 402
LC50 Inhalation - Rat	≥ 5 mg/l/4h

### Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy)derivs., C10-rich (398141-87-2)

LD50 dermal rabbit	4000 – 8000 mg/kg bodyweight US 16 CFR 1500.3 Federal Hazardous Substances Act
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### Dodecylphenol, mixed isomers (branched) (121158-58-5)

LD50 oral rat	2100 mg/kg OECD 401
LD50 dermal rabbit	15000 mg/kg OECD 402
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Additional information	: This product is formulated with highly refined mineral oils which are considered under IARC as not carcinogenic. It was the IP 346 test showed that all oils in this product contains less than 3% extractable substances.
Reproductive toxicity	: Not classified

### Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy)derivs., C10-rich (398141-87-2)

NOAEL (animal/male, F0/P)	175 mg/kg bodyweight male rat: OECD 421
NOAEL (animal/female, F0/P)	175 mg/kg bodyweight Male rat: OECD Guideline 421

STOT-single exposure : Not classified

### Base oil - not specified (64742-54-7)

NOAEL (dermal, rat/rabbit)	> 2000 mg/kg bodyweight
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STOT-repeated exposure : Not classified

### Base oil - not specified (64742-54-7)

LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight OECD 408
NOAEL (dermal, rat/rabbit, 90 days)	> 1000 mg/kg bodyweight/day
NOAEL (subacute, oral, animal/male, 28 days)	> 220 mg/kg bodyweight
NOAEL (subchronic, oral, animal/male, 90 days)	> 980 mg/kg bodyweight

### Phosphorodithioic acid, mixed 0,0-bis(1,3-dimethylbutyl and iso-Pr)esters, zinc salts (84605-29-8)

NOAEL (oral, rat, 90 days)	160 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
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### Dodecylphenol, mixed isomers (branched) (121158-58-5)

NOAEL (subacute, oral, animal/male, 28 days)	1,5 mg/kg bodyweight
NOAEL (subacute, oral, animal/female, 28 days)	15 mg/kg bodyweight OECD 416

Aspiration hazard : Not classified

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Viscosity, kinematic	86 mm <sup>2</sup> /s @ 100°C
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## SECTION 12: Ecological information

### 12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.

### Base oil - not specified (64742-54-7)

LC50 fish 1	> 100 mg/l @Pimephales promelas
EC50 Daphnia 1	> 10000 mg/l
EC50 Daphnia 2	> 10 mg/l @21D
EC50 72h algae (1)	> 100 mg/l @Scenedesmus quadricauda 3D
NOEC chronic fish	> 10 mg/l @21 D

### Phosphorodithioic acid, mixed 0,0-bis(1,3-dimethylbutyl and iso-Pr)esters, zinc salts (84605-29-8)

LC50 fish 1	4,5 mg/l Oncorhynchus mykiss OECD 203
LC50 fish 2	46 mg/l Cyprinodon variegatus
LC50 other aquatic organisms 1	≥ 10000 mg/l 3h bacteria
EC50 Daphnia 1	23 mg/l OECD 202
EC50 Daphnia 2	0,8 mg/l @21d
EC50 other aquatic organisms 2	10000 mg/l @0.1d - Chlorophyta
EC50 72h algae (1)	21 mg/l @3d - Chlorophyta
ErC50 (algae)	21 mg/l 72h Desmodesmus subspicatus OECD 201
NOEC (acute)	1,8 mg/l @4d - Oncorhynchus mykiss
NOEC (chronic)	10 mg/l @2d - Daphnia
NOEC chronic fish	0,4 mg/l @21d - Daphnia
NOEC chronic algae	10 mg/l @3d - Chlorophyta

### Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy)derivs., C10-rich (398141-87-2)

LC50 fish 1	2,4 mg/l Oncorhynchus mykiss
LC50 fish 2	3,3 Cyprinodon variegatus
EC50 Daphnia 1	4,6 mg/l Daphnia Magna
EC50 72h algae (1)	63 mg/l Selenastrum capricornutum
NOEC chronic fish	1 mg/l @4d Oncorhynchus mykiss
NOEC chronic crustacea	0,63 mg/l 2d Daphnia magna
NOEC chronic algae	0,313 mg/l 3d Selenastrum capricornutum

### Dodecylphenol, mixed isomers (branched) (121158-58-5)

LC50 fish 1	40 mg/l Pimephales promelas
EC50 Daphnia 1	0,037 mg/l
EC50 Daphnia 2	0,0079 mg/l @21d
EC50 other aquatic organisms 1	0,36 Chlorophyta
EC50 other aquatic organisms 2	> 1000 mg/l @0.1d - slib
EC50 72h algae (1)	0,15 mg/l OECD 201 Desmodesmus subspicatus
EC50 72h algae (2)	0,36 mg/l Desmodesmus subspicatus
EC50 96h algae (2)	> 0,58 mg/l Mysidopsis Bahia

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ErC50 (algae)	0,36 mg/l 21d
LOEC (chronic)	0,012 mg/l Daphnia magna @ 21d
NOEC (chronic)	0,0037 mg/l @21d - Daphnia

### 12.2. Persistence and degradability

#### Motor Oil 10W-40 Semi Synthetic Higher Mileage

Persistence and degradability	Not soluble in water, so only minimally biodegradable.
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#### Base oil - not specified (64742-54-7)

Biodegradation	31 % @28D -OECD TG 301 B
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#### Phosphorodithioic acid, mixed 0,0-bis(1,3-dimethylbutyl and iso-Pr)esters, zinc salts (84605-29-8)

Persistence and degradability	Not readily biodegradable.
Biodegradation	1,5 % @28d OECD TG 301 B

#### Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy)derivs., C10-rich (398141-87-2)

Persistence and degradability	Not readily biodegradable.
BOD (% of ThOD)	9,6 % ThOD Thod 28d OECD TG 301F

#### Dodecylphenol, mixed isomers (branched) (121158-58-5)

Biodegradation	25 % Sturm-test @28d
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### 12.3. Bioaccumulative potential

#### Phosphorodithioic acid, mixed 0,0-bis(1,3-dimethylbutyl and iso-Pr)esters, zinc salts (84605-29-8)

Log Kow	0,56 Measurements
Bioaccumulative potential	not bioaccumulable.

#### Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy)derivs., C10-rich (398141-87-2)

Bioconcentration factor (BCF REACH)	27,54
Log Kow	4,1
Bioaccumulative potential	Expected to bio accumulate.

#### Dodecylphenol, mixed isomers (branched) (121158-58-5)

Bioconcentration factor (BCF REACH)	497,33 7,1 @0,1d
Log Kow	7,1 @ 0,1d

### 12.4. Mobility in soil

#### Phosphorodithioic acid, mixed 0,0-bis(1,3-dimethylbutyl and iso-Pr)esters, zinc salts (84605-29-8)

Soil	No data available.
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#### Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy)derivs., C10-rich (398141-87-2)

Soil	Adsorbs into the soil.
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#### Dodecylphenol, mixed isomers (branched) (121158-58-5)

Soil	No data available.
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### 12.5. Results of PBT and vPvB assessment

#### Component

Phosphorodithioic acid, mixed 0,0-bis(1,3-dimethylbutyl and iso-Pr)esters, zinc salts (84605-29-8)	The product does not meet the PBT and vPvB classification criteria
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### 12.6. Other adverse effects

No additional information available

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

### SECTION 14: Transport information

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

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

#### 14.6. Special precautions for user

##### Overland transport

No data available

##### Transport by sea

No data available

#### 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

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

##### 15.1.2. National regulations

No additional information available

#### 15.2. Chemical safety assessment

No additional information available

### SECTION 16: Other information

#### Full text of H- and EUH-statements:

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 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1



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Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Repr. 1B	Reproductive toxicity, Category 1B
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H360F	May damage fertility.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH210	Safety data sheet available on request.

### SDS MPM REACH

*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.*