

Trade name: Methanol

Current version : 5.0.1, issued: 28.02.2024

Replaced version: 5.0.0, issued: 18.01.2024

Region: GB

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

#### 1.1 Product identifier

Trade name

#### Methanol

Substance name                                  methanol  
REACH registration no.                          01-2119433307-44

#### Identification numbers

CAS no.                                                  67-56-1  
EC no.                                                    200-659-6  
Index no.                                                603-001-00-X

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

##### Relevant identified uses of the substance or mixture

Uses by workers in industrial settings  
Manufacture of the substance / Use as an intermediate / use as an process chemical  
Distribution of the substance  
Formulation and (re)packing of substance and mixtures  
Use as a fuel in industrial settings  
Industrial use in cleaning agents  
Use as a laboratory reagent in industrial settings  
Industrial use as wastewater treatment chemical

Uses by professional workers  
Use as a fuel in professional settings  
Professional use in cleaning agents  
Use as a laboratory reagent in professional settings  
Professional use in oilfield drilling and production operations

Uses by consumers  
Consumer use of cleaning agents and deicers (liquid products)  
Consumer use of cleaning agents and deicers (spray products)  
Consumer use of fuels indoors (Domestic/hobby use e.g in model engines, fuel cells, fondue sets)  
Consumer use of fuels outdoors (gasoline additive)

Most common technical function of substance (what it does):

Solvents  
Intermediates  
Fuels and fuel additives

##### Uses advised against

No data available.

##### Reference to relevant exposure scenarios

For an overview of the exact titles of the relevant exposure scenarios please refer to section 16 of this SDS.

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

##### Address

Valenz AG  
Samstagerstrasse 41  
8832 Wollerau  
Switzerland

Telephone no.                                          +41 43 508 98 00  
e-mail                                                    info@valenzgroup.com

##### Advice on Safety Data Sheet

info@valenzgroup.com

#### 1.4 Emergency telephone number

**Trade name:** Methanol**Current version :** 5.0.1, issued: 28.02.2024**Replaced version:** 5.0.0, issued: 18.01.2024**Region:** GB

For medical advice (in German and English):  
+49 (0)551 192 40 (Giftinformationszentrum Nord)

In case of transport incidents and other emergencies:  
+49 89 220 61012 (Ricardo, Transport Code: VALENZ-29003)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification in accordance with Regulation (EC) No 1272/2008 (CLP)

Acute Tox. 3; H301

Acute Tox. 3; H311

Acute Tox. 3; H331

Flam. Liq. 2; H225

STOT SE 1; H370

#### Classification information

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3 and 4 of Annex I to CLP.

### 2.2 Label elements

#### Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)

##### Product identifier

67-56-1 (methanol)

##### Hazard pictograms



GHS02



GHS06



GHS08

##### Signal word

Danger

##### Hazard statement(s)

H225

H301+H311+H331

H370

Highly flammable liquid and vapour.

Toxic if swallowed, in contact with skin or if inhaled

Causes damage to organs.

##### Precautionary statement(s)

P210

P260

P280

P301+P310

P308+P311

P370+P378

P403+P233

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Do not breathe mist/vapours/spray.

Wear protective gloves/protective clothing/eye protection/face protection.

IF SWALLOWED: Immediately call a POISON CENTER/doctor.

IF exposed or concerned: Call a POISON CENTER/doctor.

In case of fire: Useextinguishing powder, foam or CO2 to extinguish.

Store in a well-ventilated place. Keep container tightly closed.

### 2.3 Other hazards

PBT assessment

The product is not considered to be a PBT.

vPvB assessment

The product is not considered to be a vPvB.

## SECTION 3: Composition/information on ingredients

Trade name: Methanol

Current version : 5.0.1, issued: 28.02.2024

Replaced version: 5.0.0, issued: 18.01.2024

Region: GB

### 3.1 Substances

**Chemical characterization**

Substance name           methanol

**Identification numbers**CAS no.                   67-56-1  
EC no.                    200-659-6  
Index no.                603-001-00-X**Other information**

Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
-	STOT SE 2; H371: C >= 3% STOT SE 1; H370: C >= 10%	-	-

**Acute toxicity estimate (ATE) values**

oral	dermal	inhalative
100 mg/kg bodyweight	300 mg/kg bodyweight	

### 3.2 Mixtures

Not applicable. The product is not a mixture.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

**General information**

Remove contaminated clothing immediately and dispose of safely. If the patient is likely to become unconscious, place and transport in stable sideways position.

**After inhalation**

Call a doctor immediately. In case of respiratory arrest induce breathing with a respiratory device. Seek medical advice. Ensure supply of fresh air.

**After skin contact**

In case of contact with skin wash off immediately with soap and water.

**After eye contact**

In case of contact with eyes rinse thoroughly with copious amounts of water and seek medical advice.

**After ingestion**

Seek medical attention. If necessary administer salt solution (2-3 tablespoons per 0.5 litres water). Not to apply to infants. Induce the patient to vomit of his own accord only if fully conscious.

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

**Symptoms**

Unconsciousness; Light-headedness; Dizziness; Headache; Sensitivity to light

**Effects**

Risk of circulatory collapse

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

No data available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media**

Alcohol-resistant foam; Extinguishing powder; Water spray jet; Carbon dioxide

**Unsuitable extinguishing media**

High power water jet

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

Trade name: Methanol

Current version : 5.0.1, issued: 28.02.2024

Replaced version: 5.0.0, issued: 18.01.2024

Region: GB

Combustion products of this material have to be classed invariably as respiratory poison. In the event of fire, the following can be released: Carbon monoxide (CO); Nitrogen oxides (NOx)

### 5.3 Advice for firefighters

Wear full protective suit. Do not inhale explosion and/or combustion byproducts. Fire-fighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations. Cool endangered containers with water spray jet. Apply foam in large quantities because some of it will be destroyed by the product.

## SECTION 6: Accidental release measures

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

#### For non-emergency personnel

Keep away from ignition sources. Use personal protective clothing. Keep people away and stay on the upwind side.

#### For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

### 6.2 Environmental precautions

Suppress gases/vapours/mists with water spray jet. Prevent spread over a wide area (e.g. by containment or oil barriers). Do not allow to enter drains or waterways.

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

Pick up with absorbent material. Room ventilation via exhaust system.

### 6.4 Reference to other sections

Information regarding waste disposal, see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Advice on safe handling

Open and handle container with care. Do not use for cleaning purposes. Provide good ventilation at the work area (local exhaust ventilation, if necessary).

#### General protective and hygiene measures

Avoid contact with eyes and skin. Wash hands before breaks and after work. Do not inhale vapours. Keep away from foodstuffs and beverages. Remove soiled or soaked clothing immediately. Have emergency shower available. Provide eye wash fountain in work area.

#### Advice on protection against fire and explosion

Keep away from sources of ignition - refrain from smoking. Take precautionary measures against static charges.

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

#### Technical measures and storage conditions

Keep container tightly closed. Storage: cool and dry

#### Requirements for storage rooms and vessels

Prevent penetration into the ground. Keep only in the original container.

#### Incompatible products

Do not store together with oxidizing agents.

### 7.3 Specific end use(s)

No data available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values

No	Substance name	CAS no.	EC no.
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Trade name: Methanol

Current version : 5.0.1, issued: 28.02.2024

Replaced version: 5.0.0, issued: 18.01.2024

Region: GB

1	methanol	67-56-1	200-659-6
2006/15/EC			
Methanol			
	WEL long-term (8-hr TWA reference period)	260	mg/m <sup>3</sup> 200 ppm
	Skin resorption / sensibilisation	Skin	
<b>List of approved workplace exposure limits (WELs) / EH40</b>			
Methanol			
	WEL short-term (15 min reference period)	333	mg/m <sup>3</sup> 250 ppm
	WEL long-term (8-hr TWA reference period)	266	mg/m <sup>3</sup> 200 ppm
	Comments	Sk	

### DNEL, DMEL and PNEC values

#### DNEL values (worker)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	methanol			67-56-1 200-659-6	
	dermal	Short term (acut)	systemic	20	mg/kg/day
	dermal	Long term (chronic)	systemic	20	mg/kg/day
	inhalative	Short term (acut)	systemic	130	mg/m <sup>3</sup>
	inhalative	Short term (acut)	local	130	mg/m <sup>3</sup>
	inhalative	Long term (chronic)	systemic	130	mg/m <sup>3</sup>
	inhalative	Long term (chronic)	local	130	mg/m <sup>3</sup>

#### DNEL value (consumer)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	methanol			67-56-1 200-659-6	
	oral	Long term (chronic)	systemic	4	mg/kg/day
	oral	Short term (acut)	systemic	4	mg/kg/day
	dermal	Short term (acut)	systemic	4	mg/kg/day
	dermal	Long term (chronic)	systemic	4	mg/kg/day
	inhalative	Short term (acut)	systemic	26	mg/m <sup>3</sup>
	inhalative	Short term (acut)	local	26	mg/m <sup>3</sup>
	inhalative	Long term (chronic)	systemic	26	mg/m <sup>3</sup>
	inhalative	Long term (chronic)	local	26	mg/m <sup>3</sup>

## 8.2 Exposure controls

### Appropriate engineering controls

No data available.

### Personal protective equipment

#### Respiratory protection

In case of insufficient ventilation or long-term effect use breathing apparatus. Self-contained breathing apparatus.

#### Eye / face protection

Tightly fitting safety glasses (EN 166).

#### Hand protection

In case of intensive contact, wear protective gloves (EN 374). Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material butyl  
Material thickness 0.6 - 0.8 mm  
Breakthrough time > 480 min

#### Other

Trade name: Methanol

Current version : 5.0.1, issued: 28.02.2024

Replaced version: 5.0.0, issued: 18.01.2024

Region: GB

Fire-resistant antistatic protective clothing.

**Environmental exposure controls**

No data available.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

<b>State of aggregation</b>	
liquid	
<b>Form</b>	
liquid	
<b>Colour</b>	
colourless	
<b>Odour</b>	
pungent	
<b>pH value</b>	
No data available	
<b>Boiling point / boiling range</b>	
Value	64.7 °C
<b>Melting point/freezing point</b>	
Value	-97.8 °C
<b>Decomposition temperature</b>	
No data available	
<b>Flash point</b>	
Value	9.7 °C
<b>Ignition temperature</b>	
No data available	
<b>Auto-ignition temperature</b>	
Value	455 °C
<b>Flammability</b>	
No data available	
<b>Lower explosion limit</b>	
Value	6 % vol
Source	supplier
<b>Upper explosion limit</b>	
Value	36 % vol
Source	supplier
<b>Vapour pressure</b>	
Value	169.27 hPa
Reference temperature	25 °C
<b>Relative vapour density</b>	
No data available	
<b>Relative density</b>	
No data available	
<b>Density</b>	
Value	0.79 - 0.80 g/cm <sup>3</sup>
<b>Solubility in water</b>	

Trade name: Methanol

Current version : 5.0.1, issued: 28.02.2024

Replaced version: 5.0.0, issued: 18.01.2024

Region: GB

Reference temperature	20 °C
Comments	miscible in all proportions

<b>Solubility</b>
No data available

<b>Partition coefficient n-octanol/water (log value)</b>			
No	Substance name	CAS no.	EC no.
1	methanol	67-56-1	200-659-6
log Pow			-0.77
Source	ECHA		

<b>Kinematic viscosity</b>			
Value	0.544	-	0.59 mPa*s
Reference temperature			25 °C

<b>Particle characteristics</b>
No data available

## 9.2 Other information

<b>Other information</b>
No data available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No data available.

### 10.2 Chemical stability

No data available.

### 10.3 Possibility of hazardous reactions

No data available.

### 10.4 Conditions to avoid

Reactions with oxidising agents. Formation of explosive gas/air mixtures.

### 10.5 Incompatible materials

Oxidizing agents

### 10.6 Hazardous decomposition products

Formaldehyde

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

<b>Acute oral toxicity</b>			
No	Substance name	CAS no.	EC no.
1	methanol	67-56-1	200-659-6
LD50	>	1187	- 2769 mg/kg bodyweight
Species	rat		
Method	BASF-Test		
Source	ECHA		

<b>Acute dermal toxicity</b>			
No	Substance name	CAS no.	EC no.
1	methanol	67-56-1	200-659-6
LD50			17100 mg/kg bodyweight
Species	rabbit		
Source	ECHA		

<b>Acute inhalational toxicity</b>
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Trade name: Methanol

Current version : 5.0.1, issued: 28.02.2024

Replaced version: 5.0.0, issued: 18.01.2024

Region: GB

No	Product Name	CAS no.	EC no.
LC50		128.2	mg/l
Duration of exposure		4	h
Species	rat		
Source	ECHA		
No	Substance name	CAS no.	EC no.
1	methanol	67-56-1	200-659-6
LC50		128.2	mg/l
Duration of exposure		4	h
State of aggregation	Vapour		
Species	rat		
Source	ECHA		

Skin corrosion/irritation			
No	Substance name	CAS no.	EC no.
1	methanol	67-56-1	200-659-6
Species	rabbit		
Method	BASF-Test		
Source	ECHA		
Evaluation	non-irritant		

Serious eye damage/irritation			
No	Substance name	CAS no.	EC no.
1	methanol	67-56-1	200-659-6
Species	rabbit		
Method	BASF-Test		
Source	ECHA		
Evaluation	non-irritant		

Respiratory or skin sensitisation			
No	Substance name	CAS no.	EC no.
1	methanol	67-56-1	200-659-6
Route of exposure	Skin		
Duration of exposure		72	h
Species	guinea pig		
Method	OECD 406		
Source	ECHA		
Evaluation	non-sensitizing		

Germ cell mutagenicity			
No data available			

Reproduction toxicity			
No data available			

Carcinogenicity			
No data available			

STOT - single exposure			
No data available			

STOT - repeated exposure			
No data available			

Aspiration hazard			
No data available			

Delayed and immediate effects as well as chronic effects from short and long-term exposure			
Inhalation causes narcotic effect/intoxication. Inhalation causes headache/nausea.			

## 11.2 Information on other hazards

### Endocrine disrupting properties

No data available.



Trade name: Methanol

Current version : 5.0.1, issued: 28.02.2024

Replaced version: 5.0.0, issued: 18.01.2024

Region: GB

**Other information**

No data available.

**SECTION 12: Ecological information****12.1 Toxicity**

<b>Toxicity to fish (acute)</b>			
No	Substance name	CAS no.	EC no.
1	methanol	67-56-1	200-659-6
LC50		15400	mg/l
Duration of exposure		96	h
Species	Lepomis macrochirus		
Method	EPA-660 / 3-75-009		
Source	ECHA		

<b>Toxicity to fish (chronic)</b>			
No data available			

<b>Toxicity to Daphnia (acute)</b>			
No	Substance name	CAS no.	EC no.
1	methanol	67-56-1	200-659-6
EC50		>	10000 mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	DIN 38412 Part 11		
Source	ECHA		

<b>Toxicity to Daphnia (chronic)</b>			
No data available			

<b>Toxicity to algae (acute)</b>			
No	Substance name	CAS no.	EC no.
1	methanol	67-56-1	200-659-6
EC50		appr.	22000 mg/l
Duration of exposure		96	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		

<b>Toxicity to algae (chronic)</b>			
No data available			

<b>Bacteria toxicity</b>			
No data available			

**12.2 Persistence and degradability**

<b>Biodegradability</b>			
No	Substance name	CAS no.	EC no.
1	methanol	67-56-1	200-659-6
Type	BOD		
Value		95	%
Duration		20	day(s)
Source	ECHA		
Evaluation	readily biodegradable		

**12.3 Bioaccumulative potential**

<b>Partition coefficient n-octanol/water (log value)</b>			
No	Substance name	CAS no.	EC no.
1	methanol	67-56-1	200-659-6
log Pow		-0.77	
Source	ECHA		

**Trade name:** Methanol

**Current version :** 5.0.1, issued: 28.02.2024

**Replaced version:** 5.0.0, issued: 18.01.2024

**Region:** GB

### 12.4 Mobility in soil

No data available.

### 12.5 Results of PBT and vPvB assessment

#### Results of PBT and vPvB assessment

PBT assessment	The product is not considered to be a PBT.
vPvB assessment	The product is not considered to be a vPvB.

### 12.6 Endocrine disrupting properties

No data available.

### 12.7 Other adverse effects

No data available.

### 12.8 Other information

#### Other information

Product is not allowed to discharge into aquatic environment, drains or sewage treatment plants.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

#### Packaging

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

## SECTION 14: Transport information

### 14.1 UN number or ID number

ICAO-TI / IATA UN1230

### 14.2 UN proper shipping name

ADR/RID/ADN METHANOL

IMDG METHANOL

ICAO-TI / IATA Methanol

### 14.3 Transport hazard class(es)

ADR/RID/ADN - Class 3

Label 3+6.1

Classification code FT1

Tunnel restriction code D/E

Hazard identification no. 336

IMDG - Class 3

Subsidiary Risk 6.1

Label 3+6.1

ICAO-TI / IATA - Class 3

Subrisk 6.1

Label 3+6.1

### 14.4 Packing group

ADR/RID/ADN II

IMDG II

ICAO-TI / IATA II

### 14.5 Environmental hazards

EmS F-E, S-D

Trade name: Methanol

Current version : 5.0.1, issued: 28.02.2024

Replaced version: 5.0.0, issued: 18.01.2024

Region: GB

**14.6 Special precautions for user**

No data available.

**14.7 Maritime transport in bulk according to IMO instruments**

Product name	Methyl alcohol
Pollution category	Y
Ship type	3

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations****Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

In accordance with the REACH regulation (EC) 1907/2006, the product does not contain any substances that are considered as subject to listing in annex XIV, inventory of substances requiring authorisation.

**REACH candidate list of substances of very high concern (SVHC) for authorisation**

In accordance with article 57 and article 59 of the Reach regulation (EC) 1907/2006, this substance is not considered as subject to listing in annex XIV, inventory of substances requiring authorisation ("Authorization list").

**Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES**

The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII.	No	3, 40
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The substance is considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

No	Substance name	CAS no.	EC no.	No
1	methanol	67-56-1	200-659-6	69, 75

**Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances**

This substance is subject to Part 2 of Annex I

No	Substance name	CAS no.	EC no.	No
1	methanol	67-56-1	200-659-6	22

**National regulations****National chemical inventories**

EINECS/ELINCS (European Community)	listed
USA (TSCA)	listed
DSL/NDSL (Canada)	DSL listed
ENCS (Japan)	listed
ECL (Korea)	listed
AICS (Australia)	listed
IECSC / NEPA (China)	listed
PICCS (Philippines)	listed
NZIoC (New Zealand)	listed
Taiwan (TCSI)	listed

**15.2 Chemical safety assessment**

A chemical safety assessment has been carried out for this substance.

**SECTION 16: Other information****Sources of key data used to compile the data sheet:**

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

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**Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)**

H301 Toxic if swallowed.  
H311 Toxic in contact with skin.  
H331 Toxic if inhaled.

**List of existing exposition scenarios**

ES001 Use as an intermediate, process chemical - industrial use  
ES002 Distribution of the substance including substance transfers - industrial use  
ES003 Formulation and (re)packing of substance and mixtures - industrial use  
ES004 Water treatment - industrial use  
ES005 Use in Cleaning Agents - use in industrial settings  
ES006 Use in cleaning agents - use in professional settings  
ES007 Oil field drilling chemical - industrial use  
ES008 Use as a fuel - use in industrial settings  
ES009 Use as a fuel - use in professional settings  
ES010 Use as a laboratory reagent - use in industrial settings  
ES011 Use as a laboratory reagent - use in professional settings  
ES012 Use of cleaning agents (e.g. windshield cleaner) and de-icers (liquid non-spray products) - consumer use  
ES013 Use of cleaning agents (e.g. windshield cleaner) and de-icers (liquid spray products) - consumer use  
ES014 Use as fuel outdoors (gasoline additive) - consumer use  
ES015 Use as automotive fuel - consumer use

**Creation of the safety data sheet**

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

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