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

## 1.1 Product identifier Trade name

## RefreshCockpitCare

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

Relevant identified uses of the substance or mixture car care Cleaner

Uses advised against No data available.

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

#### Address

Koch-Chemie GmbH Einsteinstr. 42 D-59423 Unna Telephone no. +49-2303-9 86 70-0 Fax no. +49-2303-9 86 70-26

Advice on Safety Data Sheet sdb\_info@umco.de

#### 1.4 Emergency telephone number

+353 1 809 2166 (National Poisons Information Centre)

## **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

#### **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, 4 and 5 of Annex I to CLP.

This product does not meet the classification criteria given in the Regulation (EC) No 1272/2008 (CLP).

## 2.2 Label elements

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

#### Hazard pictograms

Signal word

.

Hazard statement(s)

## Hazard statements (EU)EUH210Safety data sheet available on request.

## Precautionary statement(s)

#### -

#### Supplemental label elements

Regulation (EC) No 648/2004 on detergents (Annex VII): 5-15% non-ionic surfactants

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Perfumings 2-BROMO-2-NITROPROPANE-1,3-DIOL OCTYLISOTHIAZOLINONE

#### Labelling information

The labelling (EU hazard statements) meets the criteria of annex II of Directive (EC) Nr. 1272/2008 (CLP).

#### 2.3 Other hazards

#### PBT assessment

According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be PBT.

vPvB assessment

According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be vPvB.

## **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Not applicable. The product is not a substance.

#### 3.2 Mixtures

#### Hazardous ingredients

No	Substance name		Addit	ional information	
	CAS / EC / Index /	Classification (EC) 1272/2008 (CLP)	Conc	entration	%
	REACH no				
1	2-butoxyethanol				
	111-76-2	Acute Tox. 4; H302	<	5,00	wt%
	203-905-0	Acute Tox. 4; H312			
	603-014-00-0	Acute Tox. 4; H332			
	01-2119475108-36	Eye Irrit. 2; H319			
		Skin Irrit. 2; H315			
2	Siloxanes and Silicones, di-Me, 3-[3-[(3-coco				
	amidopropyl)dimethylammonio]-2-hydroxypropoxy]propyl group-				
	terminated, acetates (salts)				
	134737-05-6	Aquatic Acute 1; H400	<	0,50	wt%
	-	Aquatic Chronic 2; H411			
	-				
	-				
3	bronopol		pls. r	efer to footnote (1)	
	52-51-7	Acute Tox. 4*; H302	<	0,10	wt%
	200-143-0	Acute Tox. 4*; H312			
	603-085-00-8	Aquatic Acute 1; H400			
	-	Eye Dam. 1; H318			
		Skin Irrit. 2; H315			
		STOT SE 3; H335			
		Aquatic Chronic 2; H411			

Full Text for all H-phrases and EUH-phrases: pls. see section 16

(\*,\*\*,\*\*\*,\*\*\*\*) Detailed explanation pls. refer to CLP regulation No. 1272/2008, annex VI, 1.2

(1) Aberrant from/in addition to the classification set out in Annex VI, this substance is classified according to European Regulation (EC) No 1272/2008 (CLP), Article 4 (3), paragraph 2.

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
3	-	-	M = 10	-

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## **SECTION 4: First aid measures**

## 4.1 Description of first aid measures

#### General information

Remove contaminated clothing and shoes and launder thoroughly before reusing. In case of persisting adverse effects, consult a physician.

#### After inhalation

Ensure supply of fresh air.

#### After skin contact

When in contact with the skin, clean with soap and water.

## After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes).

#### After ingestion

Rinse the mouth thoroughly with water. Do not induce vomiting. Never give anything by mouth to an unconscious person.

## 4.2 Most important symptoms and effects, both acute and delayed No data available.

- No data available
- **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

Water spray jet; Carbon dioxide; Alcohol-resistant foam; Dry chemical extinguisher

Unsuitable extinguishing media High power water jet

## 5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon monoxide (CO); Carbon dioxide (CO2); Nitrogen oxides (NOx)

## 5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing.

## **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

## For non-emergency personnel

Refer to protective measures listed in sections 7 and 8.

#### For emergency responders

Personal protective equipment (PPE) - see section 8.

## 6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

## 6.3 Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13).

## 6.4 Reference to other sections

Information regarding safe handling, see section 7. Information regarding personal protective measures, see section 8. Information regarding waste disposal, see section 13.

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SEC	TION 7: Handling and storage	e				
7.1	Precautions for safe handling					
	General protective and hygiene Do not eat, drink or smoke during and after work. Do not inhale vapo	vork time. Keep away from f	oodstuffs and beverages. Wa	ash hands before breaks		
7.2	Conditions for safe storage, including any incompatibilities					
	<b>Technical measures and storage conditions</b> Keep container tightly closed and dry in a cool, well-ventilated place.					
	<b>Storage stability</b> Value	>= 36	months			
	Requirements for storage room Containers which are opened mus containers of same material as the	be carefully resealed and keep	ept upright to prevent leakage	e. Always keep in		
	Incompatible products Substances to be avoided, see se	tion 10.				

## 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.	
1	2-butoxyethanol	111-76-2		203-905-0	
	2000/39/EC				
	2-Butoxyethanol				
	WEL short-term (15 min reference period)	246	mg/m³	50	ppm
	WEL long-term (8-hr TWA reference period)	98	mg/m³	20	ppm
	Skin resorption / sensibilisation	Skin			
	List of Chemical Agents and Occupational Exposure	Limit Values	(Code of Prac	ctice)	
	2-Butoxyethanol				
	WEL short-term (15 min reference period)	246	mg/m³	50	ppm
	WEL long-term (8-hr TWA reference period)	98	mg/m³	20	ppm
	Comments	Sk, IOELV			

## **DNEL, DMEL and PNEC values**

#### DNEL values (worker)

No	Substance name	Substance name			10
	Route of exposure	Exposure time	Effect	Value	
1	2-butoxyethanol			111-76-2	
				203-905-0	
	dermal	Long term (chronic)	systemic	125,00	mg/kg/day
	dermal	Short term (acut)	systemic	89,00	mg/kg/day
	inhalative	Long term (chronic)	systemic	98,00	mg/m³
	inhalative	Short term (acut)	systemic	1091,00	mg/m³
	inhalative	Long term (chronic)	local	246,00	mg/m³

## DNEL value (consumer)

No	Substance name			CAS / EC no
	Route of exposure	Exposure time	Effect	Value
1	2-butoxyethanol			111-76-2
	-			203-905-0

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ora	ral	Long term (chronic)	systemic	6,30	mg/kg/day
ora	ral	Short term (acut)	systemic	26,70	mg/kg/day
de	ermal	Long term (chronic)	systemic	75,00	mg/kg/day
de	ermal	Short term (acut)	systemic	89,00	mg/kg/day
inh	halative	Long term (chronic)	systemic	59,00	mg/m³
inł	halative	Short term (acut)	systemic	426,00	mg/m <sup>3</sup>
inh	halative	Long term (chronic)	local	147,00	mg/m <sup>3</sup>

#### PNEC values

No	Substance name		CAS / EC no	
	ecological compartment	Туре	Value	
1	2-butoxyethanol		111-76-2 203-905-0	
	water	fresh water	8,80	mg/L
	water	marine water	0,88	mg/L
	water	fresh water sediment	34,60	mg/kg
	with reference to: dry weight			
	water	marine water sediment	3,46	mg/kg
	water	Aqua intermittent	26,4	mg/L
	soil	-	2,33	mg/kg dry weight
	sewage treatment plant	-	463,00	mg/L
	secondary poisoning	-	0,02	g/kg

#### 8.2 Exposure controls

#### Appropriate engineering controls

Ensure adequate ventilation, local exhaust at the work station if necessary.

#### Personal protective equipment

#### **Respiratory protection**

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of dust formation, take appropriate measures for breathing protection in the event that workplace threshold values are not specified.

#### Eye / face protection

Safety glasses (EN 166)

#### Hand protection

In case of intensive contact, wear protective gloves (EN 374). 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.

#### Other

Chemical-resistant work clothes.

## Environmental exposure controls

No data available.

## **SECTION 9: Physical and chemical properties**

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

Form/Colour	
liquid white	
white	
Odour	
fruity	
nuny	

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No data available		
pH value		
Value	6,5	
Boiling point / boiling range		
No data available		
Melting point/freezing point No data available		
Decomposition temperature No data available		
Flash point		
Value	70 °C	
Auto-ignition temperature No data available		
Oxidising properties		
not oxidizing		
<b>Explosive properties</b> This product is not explosive. In and after u	use danger of production of inflammable compounds.	
Flammability		
No data available		
Lower explosion limit		
No data available		
Upper explosion limit No data available		
Vapour pressure		
No data available		
Relative vapour density		
No data available		
Evaporation rate		
No data available		
Relative density No data available		
Density		
Value Reference temperature	0,99 g/cm³ 20 °C	
Reference temperature         Solubility in water         No data available         Solubility		
Reference temperature Solubility in water		
Reference temperature         Solubility in water         No data available         Solubility         No data available         Partition coefficient n-octanol/water (log	20 °C	
Reference temperature         Solubility in water         No data available         Solubility         No data available         Partition coefficient n-octanol/water (log No Substance name	20 °C	0
Reference temperature         Solubility in water         No data available         Solubility         No data available         Partition coefficient n-octanol/water (log	20 °C	

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## 9.2 Other information

Other information No data available.

## **SECTION 10: Stability and reactivity**

## 10.1 Reactivity

No data available.

#### **10.2 Chemical stability** Stable under recommended storage and handling conditions (See section 7).

- **10.3 Possibility of hazardous reactions** Dangerous reactions are not to be expected when handling product according to its intended use.
- 10.4 Conditions to avoid None known
- **10.5** Incompatible materials Oxidizing agents
- **10.6 Hazardous decomposition products** No hazardous decomposition products known.

## **SECTION 11: Toxicological information**

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

No	Product Name RefreshCockpitCare				
1					
Corr	nments	The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE oral > 2000 mg/kg).			

Acu	te oral toxicity				
No	Substance name		CAS no.		EC no.
1	2-butoxyethanol		111-76-2		203-905-0
LD5	0			1746	mg/kg bodyweight
Spee	cies	rat			
Meth	nod	OECD 401			
Sour	rce	ECHA			
		· · · · · · · · · · · · · · · · · · ·			

Acute dermal toxicity (result of the ATE calculation for the mixture)				
No	Product Name			
1	RefreshCockpitCare			
Comments		The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE dermal > 2000 mg/kg).		

Acute dermal toxicity					
No	Substance name	CAS no.		EC no.	
1	2-butoxyethanol	111-76-2		203-905-0	
LD5	0	>	2000	mg/kg bodyweight	
Species		guinea pig			
Method		OECD 402			

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Source		ECHA				
Acute inhalational	toxicity (result of the ATE	calculation f	or the mixtu	re)		
No Product Nam	e					
1 RefreshCock	pitCare					
Comments		European Re Part 3 of Ann labelling of th respective ca	gulation (EC) lex L is outsid lis mixture acc lategories (ATE	1272/2008 ( le the values t cording to tabl	hod according to the CLP), Paragraph 3.1.3.6 hat imply a classification le 3.1.1 defining the n: > 20.000 ppmV (gase ).	n /
Acute inhalational	toxicity					
No Substance na			CAS no.		EC no.	
1 2-butoxyetha			111-76-2		203-905-0	
ATE		1	111-70-2	1,5	mg/l	
Duration of exposu				4	h	
State of aggregatio		Dust/mist		4		
Species	1	-				
opecies		rat				
Skin corrosion/irri	tation					
No Substance na			CAS no.		EC no.	
1 2-butoxyetha			111-76-2		203-905-0	
Duration of exposu		1		4	<u></u> h	
Species	5	rabbit				
Method		EU B.4				
Source		ECHA				
Evaluation		irritant				
		Innani				
Serious eye dama	ge/irritation					
No Substance na			CAS no.		EC no.	
1 2-butoxyetha	nol		111-76-2		203-905-0	
Duration of exposu			-	24	h	
Species		rabbit				
Method		OECD 405				
Source		ECHA				
Evaluation		Irritating to e	ves			
		j	<b>)</b>			
Respiratory or ski						
No Substance na			CAS no.		EC no.	
1 2-butoxyetha	nol		111-76-2		203-905-0	
Route of exposure		Skin				
Species		guinea pig				
Method		OECD 406				
Source		ECHA				
Evaluation		non-sensitizir	ng			
						_
Germ cell mutage					50	_
	ime		CAS no.		EC no.	
No Substance na	1 I		111-76-2		203-905-0	
No Substance na 1 2-butoxyetha	nol					
NoSubstance na12-butoxyethaMethod	nol	OECD 471				
No         Substance na           1         2-butoxyetha           Method         Source		ECHA				
No         Substance na           1         2-butoxyetha           Method         Source		ECHA	ailable data, tl	he classificatio	on criteria are not met.	
NoSubstance na12-butoxyethaMethodSourceEvaluation/classification	ation	ECHA	ailable data, tl	he classificatio	on criteria are not met.	
No         Substance na           1         2-butoxyetha           Method         Source           Evaluation/classifica           Reproduction toxi	ation	ECHA	ailable data, tl	he classificatio	on criteria are not met.	
No         Substance na           1         2-butoxyetha           Method         Source           Evaluation/classification         Reproduction toxi           No data available         No	ation	ECHA	ailable data, tl	he classificatio	on criteria are not met.	
No         Substance na           1         2-butoxyetha           Method         Source           Evaluation/classification         Reproduction toxi           No data available         Carcinogenicity	ation <b>city</b>	ECHA		he classificatio		
No         Substance na           1         2-butoxyetha           Method         Source           Evaluation/classification         Reproduction toxi           No         data available           Carcinogenicity         No           No         Substance na	ation city ame	ECHA	CAS no.	he classificatio	EC no.	
No         Substance na           1         2-butoxyetha           Method         Source           Evaluation/classification         Reproduction toxi           No data available         Carcinogenicity	ation city ame	ECHA		he classificatio		

#### Trade name: RefreshCockpitCare Product no.: 77706999 Current version : 1.0.0, issued: 11.12.2020 Replaced version: -, issued: -Region: IE **OECD 451** Method ECHA Source Evaluation/classification Based on available data, the classification criteria are not met. STOT - single exposure No data available STOT - repeated exposure No data available Aspiration hazard No data available **SECTION 12: Ecological information** 12.1 Toxicity Toxicity to fish (acute) No Substance name EC no. CAS no. 1 2-butoxyethanol 111-76-2 203-905-0 1474 LC50 mg/l > Duration of exposure 96 h Species Oncorhynchus mykiss **OECD 203** Method ECHA Source Toxicity to fish (chronic) No Substance name CAS no. EC no. 2-butoxyethanol 111-76-2 203-905-0 1 NOEC 100 > mg/l Duration of exposure 21 day(s) Species Danio rerio Method **OECD 204** Source **ECHA** Toxicity to Daphnia (acute) No Substance name CAS no. EC no. 2-butoxyethanol 111-76-2 203-905-0 1 **EC50** 1550 mg/l Duration of exposure 48 h Daphnia magna Species Method **OECD 202** Source **ECHA** Toxicity to Daphnia (chronic) No Substance name CAS no. EC no. 2-butoxyethanol 111-76-2 203-905-0 1 NOEC 100 mg/l Duration of exposure 21 day(s) Daphnia magna Species Method **OECD 211** Source **ECHA** Toxicity to algae (acute) No Substance name CAS no. EC no. 203-905-0 2-butoxyethanol 111-76-2 1 **EC50** 911 mg/l Duration of exposure h 72 Species Pseudokirchneriella subcapitata Method **OECD 201** Source ECHA

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Toxicity to algae (chronic)	
No data available	
Bacteria toxicity	
No data available	

#### 12.2 Persistence and degradability

Bio	Biodegradability					
No	Substance name	CAS no.		EC no.		
1	2-butoxyethanol	111-76-2		203-905-0		
Туре	9	aerobic biodegradation				
Valu	e		90,4	%		
Dura	ation		28	day(s)		
Met	nod	OECD 301 B				
Source		ECHA				
Evaluation		readily biodegradable				

#### 12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log value)						
No	Substance name		CAS no.		EC no.	
1	2-butoxyethanol		111-76-2		203-905-0	
log F	Pow			0,81		
Refe	erence temperature			25	°C	
Source		ECHA				

## 12.4 Mobility in soil

No data available.

## 12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	
PBT assessment	According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be PBT.
vPvB assessment	According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be vPvB.

## 12.6 Other adverse effects

No data available.

## 12.7 Other information

Other information

Do not discharge product unmonitored into the environment.

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### Product

Disposal of the product should be carried out in accordance with all applicable regulations following consultation with the responsible local authority and the disposal company in an authorised and suitable disposal facility. 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

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by the regional disposer.

## **SECTION 14: Transport information**

- 14.1 Transport ADR/RID/ADN The product is not subject to ADR/RID/ADN regulations.
- **14.2 Transport IMDG** The product is not subject to IMDG regulations.
- **14.3 Transport ICAO-TI / IATA** The product is not subject to ICAO-TI / IATA regulations.
- **14.4 Other information** No data available.
- **14.5** Environmental hazards Information on environmental hazards, if relevant, please see 14.1 - 14.3.
- **14.6** Special precautions for user No data available.
- 14.7 Maritime transport in bulk according to IMO instruments Not relevant

## **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)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

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

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

## 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

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances subject to restriction as listed in Annex XVII of the REACH regulation (EC) 1907/2006.

**Directive 2012/18/EU** on the control of major-accident hazards involving dangerous substances This product is not subject to Part 1 or 2 of Annex I.

## Other regulations

Adhere to the national sanitary and occupational safety regulations when using this product. The surfactants contained in this product comply with the DetVO 648/2004/EC.

## 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

## **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.

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

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

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

#### Creation of the safety data sheet

UMCO GmbH - D-21107 Hamburg, Georg-Wilhelm-Strasse 187, Tel.: +49(40)555 546 300, Fax: +49(40)555 546 357, e-mail: umco@umco.de

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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