

Trade name: lodi solutio ethanolica

Substance number: 215805

Version: 8 / CH

Date revised: 10.09.2025

Replaces Version: 7 / CH

Print date: 10.09.25

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

lodi solutio ethanolica

Item No. 21580500

1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/preparation**

Active pharmaceutical substance

1.3. Details of the supplier of the safety data sheet**Address/Manufacturer**

Hänseler AG

Industriestrasse 35

9100 Herisau

Telephone no. 0041 (0)71 353 58 58

E-mail address of sdb@haenseler.ch

person responsible

for this SDS

1.4. Emergency telephone number

Switzerland :145 / Abroad +41 (0)44 251 51 51

SECTION 2: Hazards identification *****2.1. Classification of the substance or mixture****Classification (Regulation (EC) No. 1272/2008)**

Classification (Regulation (EC) No. 1272/2008)

Flam. Liq. 2 H225

STOT RE 2 H373

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

2.2. Label elements**Labelling according to regulation (EC) No 1272/2008****Hazard pictograms****Signal word**

Danger

Hazard statements ***

H225

Highly flammable liquid and vapour.

H373

May cause damage to organs through prolonged or repeated exposure.

Thyroid

Route of exposure: oral

Precautionary statements

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P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P314 Get medical advice/attention if you feel unwell.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P501.3 Disposal in compliance with local and national regulations.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains Potassium iodide; iodine

Reduced labeling (<= 125 ml)**Hazard pictograms *******Signal word *****

Danger

2.3. Other hazards

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

SECTION 3: Composition/information on ingredients *****3.2. Mixtures****Chemical characterization *****

Alcoholic solution

Hazardous ingredients**Potassium iodide**

CAS No.	7681-11-0		
EINECS no.	231-659-4		
Registration no.	01-2119906339-35-XXXX		
Concentration	>= 1	< 10	%
Classification (Regulation (EC) No. 1272/2008)	STOT RE 1	H372	Thyroid; Route of exposure: oral

iodine

CAS No.	7553-56-2		
EINECS no.	231-442-4		
Registration no.	01-2119485285-30-XXXX		
Concentration	>= 1	< 10	%
Classification (Regulation (EC) No. 1272/2008)	Acute Tox. 4	H312	
	Acute Tox. 4	H332	
	Skin Irrit. 2	H315	
	Eye Irrit. 2	H319	
	STOT SE 3	H335	Respiratory tract
	STOT RE 1	H372	Thyroid; Route of exposure: oral
	Aquatic Acute 1	H400	

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Acute Tox. 4

H302

Concentration limits (Regulation (EC) No. 1272/2008)

M = 1

ATE	oral	315	mg/kg
ATE	dermal	1'425	mg/kg
ATE	inhalative, Dust/Mist	4.588	mg/l

Further ingredients**ethanol**

CAS No.	64-17-5				
EINECS no.	200-578-6				
Registration no.	01-2119457610-43-0098				
Concentration		>=	50	%	
Advice: [3]					
Classification (Regulation (EC) No. 1272/2008)					
	Flam. Liq. 2		H225		

water

CAS No.	7732-18-5				
EINECS no.	231-791-2				
Concentration		>=	25	<	50 %
Advice: [4]					

Note

[3] Substance with occupational exposure limits

[4] Voluntary information

Other information

The product is an article within the meaning of Article 3 No. 3 of the REACH Regulation and thus not to be labelled according to the CLP regulation. The compilation of the Safety Data sheet is not required according to Article 31 REACH Regulation for articles and is done on a voluntary basis.

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

If you feel unwell, seek medical advice (show the label where possible). Take off contaminated clothing and shoes immediately.

After inhalation

Ensure supply of fresh air. In the event of symptoms take medical treatment.

After skin contact

Wash immediately with plenty of water for several minutes. Consult a doctor if skin irritation persists.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Summon a doctor immediately.

After ingestion

Rinse mouth thoroughly with water. Summon a doctor immediately.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Water spray jet, Carbon dioxide, Foam, Dry powder

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Non suitable extinguishing media

Full 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)

5.3. Advice for firefighters**Special protective equipment for fire-fighting**

Wear full protective suit. Use self-contained breathing apparatus.

Other information

Cool endangered containers with water spray jet.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation. Remove persons to safety. Keep away sources of ignition.

6.2. Environmental precautions

Do not allow to enter drains or waterways. Advise water authority if spillage has entered water course or drainage system.

6.3. Methods and material for containment and cleaning up

Take up with absorbent material (eg sand, kieselguhr, universal binder). Dispose of absorbed material in accordance with the regulations. Clean up affected area.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Keep away from heat and sources of ignition. Take action to prevent static discharges. No special measures necessary if used correctly.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep tightly closed in a dry and cool place.

Storage classes

Storage class according to TRGS 510	3	Flammable liquid
Storage category (Switzerland)	3	Flammable liquid

Further information on storage conditions

Protect from light.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure limit values****ethanol**

List	SUVA			
Type	MAK			
Value	960	mg/m ³	500	ppm(V)
Short term exposure limit	1920	mg/m ³	1000	ppm(V)
Pregnancy group: S Remarks: SSc; Formal; INRS NIOSH				

Derived No/Minimal Effect Levels (DNEL/DMEL)

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ethanol

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	343	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	950	mg/m ³

iodine

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Acute	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	1	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	0.07	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Acute	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	0.01	mg/kg

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	0.01	mg/kg

Predicted No Effect Concentration (PNEC)**iodine**

Type of value	PNEC	
Type	Freshwater	
Concentration	0.01813	mg/l

Type of value	PNEC	
Type	Saltwater	
Concentration	0.006001	mg/l

Type of value	PNEC	
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Type	Sewage treatment plant (STP)	
Concentration	11	mg/l
Type of value	PNEC	
Type	Marine sediment	
Concentration	20.22	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	5.95	mg/kg
ethanol		
Type of value	PNEC	
Type	Freshwater	
Conditions	Long term	
Concentration	0.96	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0.79	mg/l
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	3.6	mg/kg
Type of value	PNEC	
Type	Marine sediment	
Concentration	2.9	mg/kg
Type of value	PNEC	
Type	Freshwater	
Conditions	Intermittend	
Concentration	2.75	mg/l
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	580	mg/l

8.2. Exposure controls

General protective and hygiene measures

Keep away from food-stuffs, beverages and feed-stocks. Avoid contact with eyes. Observe the usual precautions for handling chemicals.

Respiratory protection

necessary; Do not breathe vapours, dust or aerosol. Provide adequate ventilation.

Hand protection

Nitrile gloves.

Eye protection

Tightly fitting safety glasses

Body protection

Light protective clothing; Fire-resistant protective clothing

SECTION 9: Physical and chemical properties

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9.1. Information on basic physical and chemical properties**Physical state** liquid, clear**Colour** red-brown**Odour** of ethanol**Boiling point or initial boiling point and boiling range**

Value > 78 °C

Source GESTIS-Stoffdatenbank

Flash point

Value < 22 °C

Source GESTIS-Stoffdatenbank

pH value

Remarks not determined

Vapour pressure

Value < 58 hPa

Temperature 20 °C

Source GESTIS-Stoffdatenbank

Density and/or relative densityValue 0.928 to 0.933 g/cm³

Remarks Relative Density according specification

9.2. Other information**Efflux time**

Value < 10 s

Method DIN 53211 4 mm

Source Estimated value

Other information

The physical data is that of the main component.

SECTION 10: Stability and reactivity**10.1. Reactivity**

Risk of ignition or formation of inflammable gases or vapours with: Air

10.2. Chemical stability

No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

Keep away from sources of heat and ignition. No decomposition if stored and applied as directed.

10.4. Conditions to avoid

Heat

10.5. Incompatible materials

Alkaline metals, peroxides, Ammonia, Oxidising agents, Reactions with metals in powder form.

10.6. Hazardous decomposition products

Hazardous decomposition products: Carbon monoxide, Carbon dioxide, Flammable gases/vapours

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

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Acute oral toxicity

ATE > 10'000 mg/kg
 Method calculated value according to GHS (e.g see UN GHS)
 Remarks Based on available data, the classification criteria are not met.

Acute oral toxicity (Components)**Potassium iodide**

Species rat
 LD50 2779 mg/kg

ethanol

Species rat
 LD50 7060 mg/kg
 Source Toxicology and Applied Pharmacology. Vol. 16, Pg. 718, 1970.

ethanol

Species rat
 LD50 10470 mg/kg

iodine

Species rat
 LD50 315 mg/kg
 Method EPA

Acute dermal toxicity

ATE > 10'000 mg/kg
 Method calculated value according to GHS (e.g see UN GHS)
 Remarks Based on available data, the classification criteria are not met.

Acute dermal toxicity (Components)**Potassium iodide**

Species rat
 LD50 > 2000 mg/kg
 Method OECD 402

ethanol

Species rabbit
 LD50 15800 mg/kg

ethanol

NOAEL 8232 mg/kg

iodine

Species rabbit
 LD50 1425 mg/g
 Source US-EPA

Acute inhalational toxicity

ATE > 20 mg/l
 Administration/Form Dust/Mist
 Method calculated value according to GHS (e.g see UN GHS)
 Remarks Based on available data, the classification criteria are not met.

Acute inhalative toxicity (Components)**Potassium iodide**

Remarks No data available

ethanol

Species rat
 LC50 30000 mg/m³
 Duration of exposure 4 h
 Administration/Form Vapors

iodine

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Species	rat		
	>	4.588	mg/l
Duration of exposure	4	h	
Administration/Form	Dust/Mist		
Method	OECD 403		

Skin corrosion/irritation

Remarks Based on available data, the classification criteria are not met.

Skin corrosion/irritation (Components)**Potassium iodide**

Species	rabbit
evaluation	non-irritant
Method	OECD 404

ethanol

evaluation	non-irritant
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iodine

evaluation	irritant
Method	OECD 439
Remarks	Longer or repeated exposure with the product may cause dermatitis

iodine

evaluation	non-corrosive
Method	OECD 439

iodine

evaluation	Moderately irritating
Method	Regulation (EC) 440/2008, B.46

Serious eye damage/irritation

Remarks Based on available data, the classification criteria are not met.

Serious eye damage/irritation (Components)**Potassium iodide**

Species	rabbit
Method	OECD 405
Remarks	None

ethanol

evaluation	irritant
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iodine

evaluation	strongly irritant
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Sensitization

Remarks Based on available data, the classification criteria are not met.

Sensitization (Components)**Potassium iodide**

Species	Human
Remarks	negative
Source	Patch-Test

iodine

Species	mouse
evaluation	non-sensitizing
Method	OECD 429

ethanol

evaluation	non-sensitizing
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Subacute, subchronic, chronic toxicity (Components)**Potassium iodide**

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Remarks	No data available
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Mutagenicity

Remarks	Based on available data, the classification criteria are not met.
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Mutagenicity (Components)**Potassium iodide**

Species evaluation	Salmonella typhimurium
Source	No mutagenicity in the Ames-test.
	ECHA

ethanol

evaluation	No mutagenicity in the Ames-test.
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iodine

Species evaluation	mouse
Method	No mutagenicity according to various in vitro tests.
	OECD 476

Reproductive toxicity

Remarks	Based on available data, the classification criteria are not met.
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Reproduction toxicity (Components)**Potassium iodide**

Remarks	No data available.
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iodine

Remarks	No data available
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Carcinogenicity

Remarks	Based on available data, the classification criteria are not met.
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Carcinogenicity (Components)**Potassium iodide**

Remarks	No data available.
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iodine

Remarks	No data available.
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Specific Target Organ Toxicity (STOT)**Single exposure**

Remarks	Based on available data, the classification criteria are not met.
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Repeated exposure

Remarks evaluation	The classification criteria are met.
	May cause damage to organs through prolonged or repeated exposure

Specific Target Organ Toxicity (STOT) (Components)**Potassium iodide****Repeated exposure**

evaluation	Causes damage to organs through prolonged or repeated exposure
	Route of exposure oral
	Organs: Thyroid

Potassium iodide**Single exposure**

Remarks	No data available
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iodine**Repeated exposure**

evaluation	Causes damage to organs.
	Route of exposure oral
	Organs: Thyroid

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iodine**Single exposure**

evaluation

May cause respiratory irritation.

Route of exposure inhalative

Organs: Respiratory tract

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2. Information on other hazards**Endocrine disrupting properties with respect to humans**

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

Experience in practice

The solvent vapours cause an irritating effect to the respiratory organs. Causes disorders of the central nervous system and can cause headache, respiratory difficulties or unconsciousness. Causes a numb feeling. Liver damage is possible.

Other information

When handled appropriately, even after long years of experience with this product, no adverse health effects are known.

SECTION 12: Ecological information**12.1. Toxicity****Fish toxicity (Components)****Potassium iodide**

Species	zebra fish (Brachydanio rerio)	
LC50	> 100	mg/l
Duration of exposure	96	h
Method	OECD 203	

iodine

Species	rainbow trout (Oncorhynchus mykiss)	
LC50	1.67	mg/l
Duration of exposure	96	h
Source	ECHA	

ethanol

Species	golden orfe (Leuciscus idus)	
LC50	8140	mg/l
Duration of exposure	96	h

Daphnia toxicity (Components)**Potassium iodide**

Remarks No data available.

iodine

Species	Daphnia magna	
EC50	0.55	mg/l
Duration of exposure	48	h
Method	static test	
Source	ECHA	

iodine

Species	Daphnia magna	
EC50	0.2	mg/l
Duration of exposure	48	h

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ethanol

Species	Daphnia magna			
EC50	9000	to	14000	mg/l
Duration of exposure	48	h		

Algae toxicity (Components)**Potassium iodide**

Remarks	No data available.
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iodine

Species	Desmodesmus subspicatus		
ErC50	0.13		mg/l
Duration of exposure	72	h	
Method	OECD 201		

iodine

Species	Desmodesmus subspicatus		
NOEC	0.025		mg/l
Duration of exposure	72	h	
Method	OECD 201		

Bacteria toxicity (Components)**Potassium iodide**

Remarks	No data available.
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iodine

Species	activated sludge		
EC50	280		mg/l
Duration of exposure	3	h	
Method	OECD 209		

12.2. Persistence and degradability**Physico-chemical eliminability (Components)****iodine**

Remarks	No data available.
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Biodegradability (Components)**Potassium iodide**

Remarks	Inorganic product, cannot be eliminated from the water by biological purification processes.
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ethanol

Value	94	%
evaluation	Readily biodegradable	

iodine

Remarks	Not applicable
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Ready degradability (Components)**iodine**

Remarks	Not applicable.
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Chemical oxygen demand (COD) (Components)**ethanol**

Value	0.93	to	1.67	mg/g
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12.3. Bioaccumulative potential**Octanol/water partition coefficient (log Pow) (Components)****iodine**

log Pow	2.49
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Method experimental

ethanol

log Pow -0.31

Bioconcentration factor (BCF) (Components)

ethanol

BCF 0.66

12.5. Results of PBT and vPvB assessment**General information**

There is no data available on the product apart from the information given in this subsection.

Results of PBT and vPvB assessment

The product contains no PBT substances

The product contains no vPvB substances.

Results of PBT and vPvB assessment (Ingredients)

ethanol

The Substance doesn't meet PBT/vPvB-criteria

12.6 Endocrine disrupting properties**Endocrine disrupting properties with respect to the environment**

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects**General information / ecology**

Toxic for aquatic organisms. Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations for the product**

Disposal in compliance with local and national regulations.

Disposal recommendations for packaging

Dispose of as unused product.

SECTION 14: Transport information ***

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	Land transport ADR/RID ***	Marine transport IMDG/GGVSee ***	Air transport ICAO/IATA ***
14.1. UN number or ID number	1293	1293	1293
14.2. UN proper shipping name	TINCTURES, MEDICINAL	TINCTURES, MEDICINAL	TINCTURES, MEDICINAL
14.3. Transport hazard class(es)	3	3	3
Label			
14.4. Packing group	II	II	II
Limited Quantity	1 I	1 I	
Transport category	2		
14.5. Environmental hazards	-		
Tunnel restriction code	D/E		

SECTION 15: Regulatory information ***

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

Water Hazard Class (Germany)

Water Hazard Class (Germany) WGK 2

Remarks Derivation of WGK according to Annex 1 No. 5.2 AwSV

Other information ***

The product does not contain substances according to Candidate List for inclusion in Annex XIV of Regulation (EC) No. 1907/2006 (REACH) with a content of $\geq 0.1\%$ w/w.

SECTION 16: Other information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification (Regulation (EC) No. 1272/2008)

Flam. Liq. 2
STOT RE 2

H225
H373

On basis of test data
Calculation method

Hazard statements listed in Chapter 2/3

H225 Highly flammable liquid and vapour.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.

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H372

Causes damage to organs through prolonged or repeated exposure.

H373

May cause damage to organs through prolonged or repeated exposure.

H400

Very toxic to aquatic life.

CLP categories listed in Chapter 2/3

Acute Tox. 4

Acute toxicity, Category 4

Aquatic Acute 1

Hazardous to the aquatic environment, acute, Category 1

Eye Irrit. 2

Eye irritation, Category 2

Flam. Liq. 2

Flammable liquid, Category 2

Skin Irrit. 2

Skin irritation, Category 2

STOT RE 1

Specific target organ toxicity - repeated exposure, Category 1

STOT RE 2

Specific target organ toxicity - repeated exposure, Category 2

STOT SE 3

Specific target organ toxicity - single exposure, Category 3

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.