

**Trade name:** edding Porcelain marker ink (orange) contained in: edding 4200

**Current version :** 2.0.1, issued: 03.03.2017

**Replaced version:** 2.0.0, issued: 09.10.2015

**Region:** GB

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

### 1.1 Product identifier

**Trade name**

**edding Porcelain marker ink (orange) contained in: edding 4200**

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

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

Ink for use in drawliners

**Uses advised against**

No data available.

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

**Address**

edding International GmbH

Bookkoppel 7

D-22926 Ahrensburg

Telephone no. +49 (0) 41 02 / 80 8-0

**Information provided by / telephone**

+49 (0)4102 - 808-0

**Advice on Safety Data Sheet**

sdb\_info@umco.de

### 1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)30 30686 790 (Giftnotruf Berlin)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

Skin Sens. 1; H317

**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.

### 2.2 Label elements

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

**Hazard pictograms**



GHS07

**Signal word**

Warning

**Hazardous component(s) to be indicated on label:**

1,2-benzisothiazol-3(2H)-one

**Hazard statements**

H317 May cause an allergic skin reaction.

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**Current version :** 2.0.1, issued: 03.03.2017

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**Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.  
 P102 Keep out of reach of children.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P501 Dispose of contents/container to a facility in accordance with local and national regulations.

**2.3 Other hazards**

No data available.

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

**3.1 Substances**

Not applicable. The product is not a substance.

**3.2 Mixtures**

**Chemical characterization**

Mixture (preparation)

**Hazardous ingredients**

No	Substance name	Classification (EC) 1272/2008 (CLP)	Additional information Concentration	%
1	<b>ethanediol</b>			
	107-21-1 203-473-3 603-027-00-1 -	Acute Tox. 4*; H302	< 5.00	%-b.w.
2	<b>ammonia, anhydrous</b>			
	7664-41-7 231-635-3 007-001-00-5 -	Acute Tox. 3*; H331 Aquatic Acute 1; H400 Flam. Gas 2; H221 Press. Gas Skin Corr. 1B; H314	< 2.50	%-b.w.
3	<b>ammonia, anhydrous</b>			
	7664-41-7 231-635-3 007-001-00-5 01-2119488876-14	Acute Tox. 3; H331 Aquatic Acute 1; H400 Skin Corr. 1B; H314 Press. Gas; H280 Flam. Gas 2; H221	< 0.50	%-b.w.
4	<b>1,2-benzisothiazol-3(2H)-one</b>			
	2634-33-5 220-120-9 613-088-00-6 -	Acute Tox. 4*; H302 Aquatic Acute 1; H400 Eye Dam. 1; H318 Skin Irrit. 2; H315 Skin Sens. 1; H317	< 0.50	%-b.w.
5	<b>glycerol</b>			
	56-81-5 200-289-5 - -	-	< 5.00	%-b.w.

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

**Trade name:** edding Porcelain marker ink (orange) contained in: edding 4200

**Current version :** 2.0.1, issued: 03.03.2017

**Replaced version:** 2.0.0, issued: 09.10.2015

**Region:** GB

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
2	U	-	-	-
3	U	Skin Irrit. 2; H315: C $\geq$ 1% Skin Corr. 1B; H314: C $\geq$ 5% Aquatic Acute 1; H400: C $\geq$ 25%	M = 1	-
4	-	Skin Sens. 1; H317: C $\geq$ 0.05%	-	-

Full text for the notes: pls. see section 16 "Notes relating to the identification, classification and labelling of substances ((EC) No 1272/2008, Annex VI)".

### 3.3 Other information

The data subject of this Material Safety Data sheet refer to the ink contained in this product (marker).

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

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

#### After inhalation

Remove affected person from the immediate area. Ensure supply of fresh air.

#### After skin contact

Wash off immediately 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). Seek medical assistance.

#### After ingestion

Rinse 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.

### 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; Carbon dioxide; Water spray jet

#### 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 dioxide (CO<sub>2</sub>); Carbon monoxide (CO)

### 5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing. Cool endangered containers with water spray jet.

## 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. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.

**Trade name:** edding Porcelain marker ink (orange) contained in: edding 4200

**Current version :** 2.0.1, issued: 03.03.2017

**Replaced version:** 2.0.0, issued: 09.10.2015

**Region:** GB

**For emergency responders**

No data available. 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**

Take up with absorbent material (e.g., sand, kieselguhr, universal binder). Send in suitable containers for recovery or disposal.

**6.4 Reference to other sections**

No data available.

## SECTION 7: Handling and storage

**7.1 Precautions for safe handling**

**Advice on safe handling**

Provide good ventilation at the work area (local exhaust ventilation, if necessary). If workplace exposure limits are exceeded, respiratory protection approved for this particular job must be worn.

**General protective and hygiene measures**

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Avoid contact with eyes and skin. Remove soiled or soaked clothing immediately. Do not inhale vapours. Clean skin thoroughly after work; apply skin cream.

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

**Technical measures and storage conditions**

Keep container tightly closed and dry in a cool, well-ventilated place. Protect from heat and direct sunlight.

**Requirements for storage rooms and vessels**

Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers of same material as the original one.

**7.3 Specific end use(s)**

No data available.

Trade name: edding Porcelain marker ink (orange) contained in: edding 4200

Current version : 2.0.1, issued: 03.03.2017

Replaced version: 2.0.0, issued: 09.10.2015

Region: GB

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

**Occupational exposure limit values**

No	Substance name	CAS no.	EC no.	
1	glycerol	56-81-5	200-289-5	
<b>List of approved workplace exposure limits (WELs) / EH40</b>				
Glycerol mist				
	TWA	10	mg/m <sup>3</sup>	
2	ethanediol	107-21-1	203-473-3	
<b>2000/39/EWG</b>				
Ethylene glycol				
	STEL	104	mg/m <sup>3</sup>	40 ml/m <sup>3</sup>
	TWA	52	mg/m <sup>3</sup>	20 ml/m <sup>3</sup>
	Skin resorption / sensibilisation		Skin	
<b>List of approved workplace exposure limits (WELs) / EH40</b>				
Ethane 1,2-diol				
particulate				
	TWA	10	mg/m <sup>3</sup>	
	Skin resorption / sensibilisation		Sk	
<b>List of approved workplace exposure limits (WELs) / EH40</b>				
Ethane 1,2-diol				
vapour				
	STEL	104	mg/m <sup>3</sup>	
	TWA	52	mg/m <sup>3</sup>	
	Skin resorption / sensibilisation		Sk	
3	ammonia, anhydrous	7664-41-7	231-635-3	
<b>List of approved workplace exposure limits (WELs) / EH40</b>				
Ammonia				
	STEL	25	mg/m <sup>3</sup>	35 ml/m <sup>3</sup>
	TWA	18	mg/m <sup>3</sup>	25 ml/m <sup>3</sup>
<b>2000/39/EWG</b>				
Ammonia, anhydrous				
	STEL	36	mg/m <sup>3</sup>	50 ml/m <sup>3</sup>
	TWA	14	mg/m <sup>3</sup>	20 ml/m <sup>3</sup>
4	ammonia, anhydrous	7664-41-7	231-635-3	
<b>List of approved workplace exposure limits (WELs) / EH40</b>				
Ammonia				
	STEL	25	mg/m <sup>3</sup>	35 ml/m <sup>3</sup>
	TWA	18	mg/m <sup>3</sup>	25 ml/m <sup>3</sup>
<b>2000/39/EWG</b>				
Ammonia, anhydrous				
	STEL	36	mg/m <sup>3</sup>	50 ml/m <sup>3</sup>
	TWA	14	mg/m <sup>3</sup>	20 ml/m <sup>3</sup>

**DNEL and PNEC values**

**DNEL values (worker)**

No	Substance name	CAS / EC no		
	Route of exposure	Exposure time	Effect	Value
1	ammonia, anhydrous			7664-41-7 231-635-3
	dermal	Short term (acut)	systemic	6.8 mg/kg/day
	dermal	Long term (chronic)	systemic	6.8 mg/kg/day
	inhalative	Short term (acut)	systemic	47.6 mg/m <sup>3</sup>
	inhalative	Short term (acut)	local	36 mg/m <sup>3</sup>
	inhalative	Long term (chronic)	systemic	47.6 mg/m <sup>3</sup>
	inhalative	Long term (chronic)	local	14 mg/m <sup>3</sup>

**Trade name:** edding Porcelain marker ink (orange) contained in: edding 4200

**Current version :** 2.0.1, issued: 03.03.2017

**Replaced version:** 2.0.0, issued: 09.10.2015

**Region:** GB

### DNEL value (consumer)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	ammonia, anhydrous			7664-41-7 231-635-3	
	oral	Short term (acut)	systemic	6.8	mg/kg/day
	oral	Long term (chronic)	systemic	6.8	mg/kg/day
	dermal	Short term (acut)	systemic	68	mg/cm <sup>2</sup>
	dermal	Long term (chronic)	systemic	68	mg/cm <sup>2</sup>
	inhalative	Short term (acut)	systemic	23.8	mg/m <sup>3</sup>
	inhalative	Short term (acut)	local	7.2	mg/m <sup>3</sup>
	inhalative	Long term (chronic)	systemic	23.8	mg/m <sup>3</sup>
	inhalative	Long term (chronic)	local	2.8	mg/m <sup>3</sup>

### PNEC values

No	Substance name		CAS / EC no	
	ecological compartment	Type	Value	
1	ammonia, anhydrous		7664-41-7 231-635-3	
	water	fresh water	0.0011	mg/l
	water	marine water	0.0011	mg/l

## 8.2 Exposure controls

### Appropriate engineering controls

No data available.

### 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 aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

#### Eye / face protection

Safety glasses with side protection shield (EN 166)

#### Hand protection

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.

#### Other

Normal chemical work clothing.

#### Environmental exposure controls

No data available.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Form/Colour</b>
liquid
orange
<b>Odour</b>
characteristic

**Trade name:** edding Porcelain marker ink (orange) contained in: edding 4200

**Current version :** 2.0.1, issued: 03.03.2017

**Replaced version:** 2.0.0, issued: 09.10.2015

**Region:** GB

<b>Odour threshold</b>			
No data available			
<b>pH value</b>			
No data available			
<b>Boiling point / boiling range</b>			
No data available			
<b>Melting point / melting range</b>			
No data available			
<b>Decomposition point / decomposition range</b>			
No data available			
<b>Flash point</b>			
No data available			
<b>Auto-ignition temperature</b>			
No data available			
<b>Oxidising properties</b>			
No data available			
<b>Explosive properties</b>			
No data available			
<b>Flammability (solid, gas)</b>			
No data available			
<b>Lower flammability or explosive limits</b>			
No data available			
<b>Upper flammability or explosive limits</b>			
No data available			
<b>Vapour pressure</b>			
No data available			
<b>Vapour density</b>			
No data available			
<b>Evaporation rate</b>			
No data available			
<b>Relative density</b>			
No data available			
<b>Density</b>			
No data available			
<b>Solubility in water</b>			
No data available			
<b>Solubility(ies)</b>			
No data available			
<b>Partition coefficient: n-octanol/water</b>			
<b>No</b>	<b>Substance name</b>	<b>CAS no.</b>	<b>EC no.</b>
1	1,2-benzisothiazol-3(2H)-one	2634-33-5	220-120-9
log Pow		1.3	
Source		Manufacturer	

**Trade name:** edding Porcelain marker ink (orange) contained in: edding 4200

**Current version :** 2.0.1, issued: 03.03.2017

**Replaced version:** 2.0.0, issued: 09.10.2015

**Region:** GB

**Viscosity**

No data available

**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**

No data available.

**10.4 Conditions to avoid**

Heat, naked flames and other ignition sources.

**10.5 Incompatible materials**

No data available.

**10.6 Hazardous decomposition products**

No data available.

**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**

**Acute oral toxicity (result of the ATE calculation for the mixture)**

**No Product Name**

1 edding Porcelain marker ink (orange) contained in:  
edding 4200

**Remarks**

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).

**Acute oral toxicity**

No	Substance name	CAS no.	EC no.
1	1,2-benzisothiazol-3(2H)-one	2634-33-5	220-120-9
LD50		1193	mg/kg bodyweight
Species	rat		
Source	Manufacturer		

**Acute dermal toxicity**

No	Substance name	CAS no.	EC no.
1	1,2-benzisothiazol-3(2H)-one	2634-33-5	220-120-9
LD50		4115	mg/kg bodyweight
Species	rat		
Source	Manufacturer		



**Trade name:** edding Porcelain marker ink (orange) contained in: edding 4200

**Current version :** 2.0.1, issued: 03.03.2017

**Replaced version:** 2.0.0, issued: 09.10.2015

**Region:** GB

<b>Acute inhalational toxicity (result of the ATE calculation for the mixture)</b>	
No	Product Name
1	edding Porcelain marker ink (orange) contained in: edding 4200
Remarks	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 for inhalation: > 20.000 ppmV (gases), > 20 mg/l (vapours), > 5 mg/l (dusts/mists).
<b>Acute inhalational toxicity</b>	
No data available	
<b>Skin corrosion/irritation</b>	
No data available	
<b>Serious eye damage/irritation</b>	
No data available	
<b>Respiratory or skin sensitisation</b>	
No data available	
<b>Germ cell mutagenicity</b>	
No data available	
<b>Reproduction toxicity</b>	
No data available	
<b>Carcinogenicity</b>	
No data available	
<b>STOT-single exposure</b>	
No data available	
<b>STOT-repeated exposure</b>	
No data available	
<b>Aspiration hazard</b>	
No data available	

## SECTION 12: Ecological information

### 12.1 Toxicity

<b>Toxicity to fish (acute)</b>			
No	Substance name	CAS no.	EC no.
1	1,2-benzisothiazol-3(2H)-one	2634-33-5	220-120-9
LC50		2.18	mg/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		
Method	OECD 203		
Source	Manufacturer		
<b>Toxicity to fish (chronic)</b>			
No data available			
<b>Toxicity to Daphnia (acute)</b>			
No	Substance name	CAS no.	EC no.
1	1,2-benzisothiazol-3(2H)-one	2634-33-5	220-120-9
EC50		2.94	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	Manufacturer		

**Trade name:** edding Porcelain marker ink (orange) contained in: edding 4200

**Current version :** 2.0.1, issued: 03.03.2017

**Replaced version:** 2.0.0, issued: 09.10.2015

**Region:** GB

Toxicity to Daphnia (chronic)	
No data available	

Toxicity to algae (acute)			
No	Substance name	CAS no.	EC no.
1	1,2-benzisothiazol-3(2H)-one	2634-33-5	220-120-9
ErC50		0.11	mg/l
Duration of exposure		72	h
Species		Pseudokirchneriella subcapitata	
Method		OECD 201	
Source		Manufacturer	

Toxicity to algae (chronic)	
No data available	

Bacteria toxicity	
No data available	

## 12.2 Persistence and degradability

No data available.

## 12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water			
No	Substance name	CAS no.	EC no.
1	1,2-benzisothiazol-3(2H)-one	2634-33-5	220-120-9
log Pow		1.3	
Source		Manufacturer	

## 12.4 Mobility in soil

No data available.

## 12.5 Results of PBT and vPvB assessment

No data available.

## 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

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

Residuals 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.

**Trade name:** edding Porcelain marker ink (orange) contained in: edding 4200

**Current version :** 2.0.1, issued: 03.03.2017

**Replaced version:** 2.0.0, issued: 09.10.2015

**Region:** GB

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

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, PREPARATIONS AND ARTICLES**

The product is considered being subject to REACH regulation (EC) 1907/2006 annexe XVII.	No 3
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#### **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.

### 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.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU

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 chapter.

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**Current version :** 2.0.1, issued: 03.03.2017

**Replaced version:** 2.0.0, issued: 09.10.2015

**Region:** GB

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

H221	Flammable gas.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H400	Very toxic to aquatic life.

**Notes relating to the identification, classification and labelling of substances and mixtures ((EC) No 1272/2008, Annex VI)**

U	When put on the market gases have to be classified as 'Gases under pressure', in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case.
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**Department issuing 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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