

# Safety Data Sheet according to (EC) No 1907/2006 as amended

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COPYDEX Adhesive (1)

SDS No. : 738921 V002.0 Revision: 21.07.2023 printing date: 30.07.2024 Replaces version from: 14.06.2022

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

#### 1.1. Product identifier

COPYDEX Adhesive (1)

**1.2. Relevant identified uses of the substance or mixture and uses advised against** Intended use:

Adhesive

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

Henkel Ltd Adhesives Wood Lane End HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 (1442) 278000

SDSinfo.Adhesive@henkel.com

For Safety Data Sheet updates please visit our website https://mysds.henkel.com/index.html#/appSelection or www.henkel-adhesives.com.

#### **1.4. Emergency telephone number**

24 Hours Emergency Tel: +44 0 8701 906777 - For further general health & safety, technical and practical advice on this product, please call +44 (0) 1606 593933 or write to: Technical Services; Henkel Limited; Road 5; Winsford Industrial Estate; Winsford; Cheshire; CW7 3QY-Email: technical.services@henkel.co.uk

## **SECTION 2: Hazards identification**

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

Classification (CLP):	
Respiratory sensitizer	Category 1
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
Skin sensitizer	Category 1
H317 May cause an allergic skin reaction.	
Chronic hazards to the aquatic environment	Category 3
H412 Harmful to aquatic life with long lasting effects.	

#### 2.2. Label elements

Label elements (CLP):

Hazard pictogram:



Rubber, natural

2,2',2"-(hexahydro-1,3,5- triazine-1,3,5-triyl)triethanol

Signal word:	Danger
Hazard statement:	H317 May cause an allergic skin reaction. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H412 Harmful to aquatic life with long lasting effects.
Precautionary statement:	P102 Keep out of reach of children. P101 If medical advice is needed, have product container or label at hand.
Precautionary statement: Prevention	<ul><li>P261 Avoid breathing dust/fume/gas/mist/vapours/spray.</li><li>P273 Avoid release to the environment.</li><li>P271 Use only outdoors or in a well-ventilated area.</li><li>P280 Wear protective gloves.</li></ul>
Precautionary statement: Response	P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor.
Precautionary statement: Disposal	P501 Dispose of contents/container in accordance with national regulation.

#### 2.3. Other hazards

None if used properly.

Following substances are present in a concentration  $\geq$  the concentration limit for depiction in Section 3 and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

This mixture does not contain any substances in a concentration  $\geq$  the concentration limit for depiction in Section 3 that are assessed to be a PBT, vPvB or ED.

# SECTION 3: Composition/information on ingredients

3.2. Mixtures

Declaration of	f the ingredients	according to CLP	(EC) No	1272/2008:
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Hazardous components CAS-No. EC Number REACH-Reg No.	Concentration	Classification	Specific Conc. Limits, M- factors and ATEs	Add. Information
Rubber, natural 9006-04-6 232-689-0	40- 60 %	Skin Sens. 1, H317 Resp. Sens. 1, H334	oral:ATE = 2.043 mg/kg	
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene 68610-51-5 271-867-2 01-2119496062-39	0,1- < 1 %	Repr. 2, H361d Aquatic Chronic 4, H413		
ammonia, aqueous solution 1336-21-6 215-647-6 01-2119488876-14	0,1-< 1 %	Skin Corr. 1B, H314 Aquatic Acute 1, H400 Aquatic Chronic 2, H411 Eye Dam. 1, H318	STOT SE 3; H335; C >= 5 % ===== M acute = 1	EU OEL
2,2',2"-(hexahydro-1,3,5- triazine-1,3,5-triyl)triethanol 4719-04-4 225-208-0 01-2119529226-41	0,1- < 1 %	Acute Tox. 4, Oral, H302 Acute Tox. 2, Inhalation, H330 Skin Sens. 1, H317 Eye Irrit. 2, H319 STOT RE 1, Inhalation, H372	Skin Sens. 1; H317; C >= 0,1 %	
thiram 137-26-8 205-286-2 01-2119492301-45	0,025-< 0,25 % ( 0,25 %o-<2,5 %o)	STOT RE 2, H373 Acute Tox. 4, Oral, H302 Acute Tox. 4, Inhalation, H332 Skin Irrit. 2, H315 Aquatic Chronic 1, H410 Aquatic Acute 1, H400 Skin Sens. 1, H317 Eye Irrit. 2, H319	M acute = 10 M chronic = 10	

If no ATE values are displayed, please refer to LD/LC50 values in Section 11. For full text of the H - statements and other abbreviations see section 16 "Other information".

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

#### 4.1. Description of first aid measures

General information: In case of adverse health effects seek medical advice.

Inhalation: Move to fresh air, consult doctor if complaint persists. Delayed effects possible after inhalation.

Skin contact: Rinse with running water and soap. Skin care. Remove contaminated clothes immediately.

Eye contact:

Immediately flush eyes with soft jet of water or eye rinse solution for at least 5 minutes. If pains remain (intensive smarting, sensitivity to light, visual disturbance) continue flushing and contact/seek doctor or hospital.

Ingestion:

Rinse mouth and throat. Drink 1-2 glasses of water. Seek medical advice.

**4.2. Most important symptoms and effects, both acute and delayed** May cause an allergic skin reaction.

RESPIRATORY: Irritation, coughing, shortness of breath, chest tightness.

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

See section: Description of first aid measures

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

## Suitable extinguishing media:

carbon dioxide, foam, powder, water spray jet, fine water spray

## Extinguishing media which must not be used for safety reasons:

High pressure waterjet

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

In the event of a fire, carbon monoxide (CO) and carbon dioxide (CO2) can be released.

#### 5.3. Advice for firefighters

Wear self-contained breathing apparatus. Wear protective equipment.

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

6.1. Personal precautions, protective equipment and emergency procedures Wear protective equipment.Avoid contact with skin and eyes.Ensure adequate ventilation.Danger of slipping on spilled product.

#### **6.2.** Environmental precautions

Do not empty into drains / surface water / ground water.

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

Remove with liquid-absorbing material (sand, peat, sawdust). Dispose of contaminated material as waste according to Section 13.

#### 6.4. Reference to other sections

See advice in section 8

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Ensure that workrooms are adequately ventilated. Avoid skin and eye contact.

Hygiene measures:

Wash hands before work breaks and after finishing work. Do not eat, drink or smoke while working.

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

Store frost-free.

Do not store together with food or other consumables (coffee, tea, tobacco, etc.).

**7.3. Specific end use(s)** Adhesive

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

## 8.1. Control parameters

## **Occupational Exposure Limits**

Valid for

Great Britain

Ingredient [Regulated substance]	ррт	mg/m <sup>3</sup>	Value type	Short term exposure limit category / Remarks	Regulatory list
Ammonia, aqueous solution 1336-21-6 [Ammonia, anhydrous]	35	25	Short Term Exposure Limit (STEL):	15 minutes	EH40 WEL
Ammonia, aqueous solution 1336-21-6 [Ammonia, anhydrous]	25	18	Time Weighted Average (TWA):		EH40 WEL
Ammonia, aqueous solution 1336-21-6 [AMMONIA, ANHYDROUS]	50	36	Short Term Exposure Limit (STEL):	Indicative	ECTLV
Ammonia, aqueous solution 1336-21-6 [AMMONIA, ANHYDROUS]	20	14	Time Weighted Average (TWA):	Indicative	ECTLV

## **Occupational Exposure Limits**

Valid for Ireland

Ingredient [Regulated substance]	ppm	mg/m <sup>3</sup>	Value type	Short term exposure limit category / Remarks	Regulatory list
Rubber, natural 9006-04-6 [NATURAL RUBBER LATEX (AS INHALABLE ALLERGENIC PROTEINS)]		0,0001	Time Weighted Average (TWA):		IR_OEL
Rubber, natural 9006-04-6 [NATURAL RUBBER LATEX]		0,0001	Time Weighted Average (TWA):		IR_OEL
Ammonia, aqueous solution 1336-21-6 [AMMONIA, ANHYDROUS]	50	36	Short Term Exposure Limit (STEL):	15 minutes Indicative OELV	IR_OEL
Ammonia, aqueous solution 1336-21-6 [AMMONIA, ANHYDROUS]	20	14	Time Weighted Average (TWA):	Indicative OELV	IR_OEL
Ammonia, aqueous solution 1336-21-6 [AMMONIA, ANHYDROUS]	50	36	Short Term Exposure Limit (STEL):	Indicative	ECTLV
Ammonia, aqueous solution 1336-21-6 [AMMONIA, ANHYDROUS]	20	14	Time Weighted Average (TWA):	Indicative	ECTLV
Thiram 137-26-8 [THIRAM (ISO)]		0,05	Time Weighted Average (TWA):		IR_OEL

## Predicted No-Effect Concentration (PNEC):

Name on list	Environmental Compartment	Exposure period	Value				Remarks
	Compartment	period	mg/l	ppm	mg/kg	others	
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene 68610-51-5	aqua (freshwater)		0,01 mg/l				
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene 68610-51-5	aqua (marine water)		0,002 mg/l				
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene 68610-51-5	sewage treatment plant (STP)		100 mg/l				
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene 68610-51-5	sediment (freshwater)				426,26 mg/kg		
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene 68610-51-5	sediment (marine water)				85,25 mg/kg		
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene 68610-51-5	Soil				85,16 mg/kg		
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene 68610-51-5	oral				1,7 mg/kg		
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene 68610-51-5	Freshwater - intermittent		0,002 mg/l				
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene 68610-51-5	Marine water - intermittent		0,002 mg/l				
ammonia, aqueous solution 1336-21-6	aqua (freshwater)		0,001 mg/l				
ammonia, aqueous solution 1336-21-6	aqua (marine water)		0,001 mg/l				
ammonia, aqueous solution 1336-21-6	aqua (intermittent releases)		0,0068 mg/l				
ammonia, aqueous solution 1336-21-6	Soil				0,022 mg/kg		
2,2',2"-(Hexahydro-1,3,5-triazine-1,3,5- triyl)triethanol 4719-04-4	aqua (freshwater)		0,0066 mg/l				
2,2',2"-(Hexahydro-1,3,5-triazine-1,3,5- triyl)triethanol 4719-04-4	aqua (marine water)		0,00066 mg/l				
2,2',2"-(Hexahydro-1,3,5-triazine-1,3,5- triyl)triethanol 4719-04-4	aqua (intermittent releases)		0,06 mg/l				
2,2',2"-(Hexahydro-1,3,5-triazine-1,3,5- triyl)triethanol 4719-04-4	sediment (freshwater)				0,0304 mg/kg		
2,2',2''-(Hexahydro-1,3,5-triazine-1,3,5- triyl)triethanol 4719-04-4	sediment (marine water)				0,00304 mg/kg		
2,2',2''-(Hexahydro-1,3,5-triazine-1,3,5- triyl)triethanol 4719-04-4	Soil				0,00219 mg/kg		
2,2',2"-(Hexahydro-1,3,5-triazine-1,3,5- triyl)triethanol 4719-04-4	sewage treatment plant (STP)		5,5 mg/l				
thiram 137-26-8	aqua (freshwater)		0,00046 mg/l				
thiram 137-26-8	sediment (freshwater)				0,047 mg/kg		
thiram 137-26-8	aqua (marine water)		0,000046 mg/l				
thiram 137-26-8	sediment (marine water)				0,0047 mg/kg		
thiram 137-26-8	Soil				0,00912 mg/kg		
thiram 137-26-8	sewage treatment plant (STP)		0,0311 mg/l				

thiram 137-26-8	oral		0,59 mg/kg	
thiram 137-26-8	aqua (intermittent releases)	0 mg/l		

## Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene 68610-51-5	Workers	dermal	Long term exposure - systemic effects		0,42 mg/kg	
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene 68610-51-5	Workers	inhalation	Long term exposure - systemic effects		0,29 mg/m3	
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene 68610-51-5	General population	dermal	Long term exposure - systemic effects		0,21 mg/kg	
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene 68610-51-5	General population	inhalation	Long term exposure - systemic effects		0,07 mg/m3	
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene 68610-51-5	General population	oral	Long term exposure - systemic effects		0,04 mg/kg	
ammonia, aqueous solution 1336-21-6	Workers	dermal	Acute/short term exposure - systemic effects		6,8 mg/kg	
ammonia, aqueous solution 1336-21-6	Workers	dermal	Long term exposure - systemic effects		6,8 mg/kg	
ammonia, aqueous solution 1336-21-6	Workers	Inhalation	Acute/short term exposure - systemic effects		47,6 mg/m3	
ammonia, aqueous solution 1336-21-6	Workers	Inhalation	Acute/short term exposure - local effects		36 mg/m3	
ammonia, aqueous solution 1336-21-6	Workers	Inhalation	Long term exposure - systemic effects		47,6 mg/m3	
ammonia, aqueous solution 1336-21-6	Workers	Inhalation	Long term exposure - local effects		14 mg/m3	
ammonia, aqueous solution 1336-21-6	General population	dermal	Acute/short term exposure - systemic effects		68 mg/kg	
ammonia, aqueous solution 1336-21-6	General population	dermal	Long term exposure - systemic effects		68 mg/kg	
ammonia, aqueous solution 1336-21-6	General population	Inhalation	Acute/short term exposure - systemic effects		23,8 mg/m3	
ammonia, aqueous solution 1336-21-6	General population	Inhalation	Acute/short term exposure - local effects		7,2 mg/m3	
ammonia, aqueous solution 1336-21-6	General population	Inhalation	Long term exposure - systemic effects		23,8 mg/m3	
ammonia, aqueous solution 1336-21-6	General population	Inhalation	Long term exposure - local effects		2,8 mg/m3	
ammonia, aqueous solution 1336-21-6	General population	oral	Acute/short term exposure - systemic effects		6,8 mg/kg	
ammonia, aqueous solution 1336-21-6	General population	oral	Long term exposure - systemic effects		6,8 mg/kg	
2,2',2"-(Hexahydro-1,3,5-triazine-1,3,5- triyl)triethanol 4719-04-4	Workers	inhalation	Long term exposure - local effects		0,2 mg/m3	
thiram 137-26-8	Workers	inhalation	Long term exposure - systemic effects		0,118 mg/m3	
thiram 137-26-8	Workers	inhalation	Acute/short term exposure - systemic effects		0,564 mg/m3	
thiram 137-26-8	Workers	dermal	Long term exposure - systemic effects		1,6 mg/kg	
thiram 137-26-8	Workers	dermal	Acute/short term exposure -		10 mg/kg	

Biological Exposure Indices: None	
8.2. Exposure controls:	
Respiratory protection: Not needed.	
naterial thickness > 0.1 mm Perforation time > 480 minutes in the case of longer and repeated contact please hose determined according to EN 374. The prote workplace (e.g. mechanical and thermal stress, pr mmediately at the first signs of wear and tear. Th association regulations for industrial safety must	ade from nitrile rubber are recommended according to EN 374. note that in practice the penetration times may be considerably shorter than ective gloves must always be checked for their suitability for use at the specif roduct compatibility, antistatic effects, etc.). The gloves must be replaced he information provided by the manufacturers and given in the relevant trade always be observed. We recommend that a hand care plan is drawn up in ade association in accordance with the local operating conditions.
Eye protection: Goggles which can be tightly sealed. Protective eye equipment should conform to EN1	166.
Skin protection: Suitable protective clothing Protective clothing should conform to EN 14605	for liquid or locker and a EN 12002 for dust
The information provided on personal protective conducted prior to using this product to determine	equipment is for guidance purposes only. A full risk assessment should be e the appropriate personal protective equipment to suit local conditions. the relevant EN standard.
The information provided on personal protective conducted prior to using this product to determine Personal protective equipment should conform to	e the appropriate personal protective equipment to suit local conditions.
The information provided on personal protective conducted prior to using this product to determine Personal protective equipment should conform to SECTION 9: Formation on basic physical and chemical prop	e the appropriate personal protective equipment to suit local conditions. the relevant EN standard. Physical and chemical properties perties
The information provided on personal protective conducted prior to using this product to determine Personal protective equipment should conform to SECTION 9: Formation on basic physical and chemical prop Delivery form	e the appropriate personal protective equipment to suit local conditions. the relevant EN standard. Physical and chemical properties perties liquid
The information provided on personal protective conducted prior to using this product to determine Personal protective equipment should conform to SECTION 9: Cormation on basic physical and chemical prop Delivery form Colour	e the appropriate personal protective equipment to suit local conditions. the relevant EN standard. Physical and chemical properties perties liquid white
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The information provided on personal protective conducted prior to using this product to determine Personal protective equipment should conform to <b>SECTION 9:</b> <b>Cormation on basic physical and chemical prop</b> Delivery form Colour Odor Physical state Melting point Solidification temperature Initial boiling point Flammability Explosive limits Flash point Auto-ignition temperature Decomposition temperature	e the appropriate personal protective equipment to suit local conditions. b the relevant EN standard. Physical and chemical properties perties liquid white slightly, ammoniacal liquid Not applicable, Product is a liquid 0 °C (32 °F) 100 °C (212 °F) The product is not flammable. Not applicable, The product is not flammable. Not applicable, No flash point up to 100°C. Aqueous preparation. > 300 °C (> 572 °F) Not applicable, Substance/mixture is not self-reactive, no organic peroxide and does not decompose under foreseen conditions of use
The information provided on personal protective conducted prior to using this product to determine Personal protective equipment should conform to <b>SECTION 9:</b> <b>Tormation on basic physical and chemical prop</b> Delivery form Colour Ddor Physical state Melting point Solidification temperature Initial boiling point Flammability Explosive limits Flash point Auto-ignition temperature Decomposition temperature	e the appropriate personal protective equipment to suit local conditions. the relevant EN standard. Physical and chemical properties perties liquid white slightly, ammoniacal liquid Not applicable, Product is a liquid 0 °C (32 °F) 100 °C (212 °F) The product is not flammable. Not applicable, The product is not flammable. Not applicable, No flash point up to 100°C. Aqueous preparation. > 300 °C (> 572 °F) Not applicable, Substance/mixture is not self-reactive, no organic
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The information provided on personal protective conducted prior to using this product to determine Personal protective equipment should conform to <b>SECTION 9:</b> <b>Cormation on basic physical and chemical prop</b> Delivery form Colour Odor Physical state Melting point Solidification temperature Initial boiling point Flammability Explosive limits Flash point Auto-ignition temperature Decomposition temperature Decomposition temperature Det (23 °C (73 °F); Conc.: 100 % product) Viscosity (kinematic) 40 °C (104 °F); ) Viscosity, dynamic Brookfield; Instrument: LVT; 20 °C (68 °F); speed of rotation: 12 min-1; Spindle No: 3) Solubility (qualitative)	e the appropriate personal protective equipment to suit local conditions. the relevant EN standard. Physical and chemical properties perties liquid white slightly, ammoniacal liquid Not applicable, Product is a liquid 0 °C (32 °F) 100 °C (212 °F) The product is not flammable. Not applicable, The product is not flammable. Not applicable, No flash point up to 100°C. Aqueous preparation. > 300 °C (> 572 °F) Not applicable, Substance/mixture is not self-reactive, no organic peroxide and does not decompose under foreseen conditions of use 10,2 > 20,5 mm2/s
The information provided on personal protective conducted prior to using this product to determine Personal protective equipment should conform to <b>SECTION 9:</b> <b>Cormation on basic physical and chemical prop</b> Delivery form Colour Odor Physical state Melting point Solidification temperature Initial boiling point Flammability Explosive limits Flash point Auto-ignition temperature Decomposition temperature Decomposition temperature Det <b>23</b> °C (73 °F); Conc.: 100 % product) Viscosity (kinematic) 40 °C (104 °F); ) Viscosity, dynamic Brookfield; Instrument: LVT; 20 °C (68 °F); speed of rotation: 12 min-1; Spindle No: 3) Solubility (qualitative) (23 °C (73.4 °F); Solvent: Water)	e the appropriate personal protective equipment to suit local conditions. b the relevant EN standard. Physical and chemical properties perties liquid white slightly, ammoniacal liquid Not applicable, Product is a liquid 0 °C (32 °F) 100 °C (212 °F) The product is not flammable. Not applicable, The product is not flammable. Not applicable, No flash point up to 100 °C. Aqueous preparation. > 300 °C (> 572 °F) Not applicable, Substance/mixture is not self-reactive, no organic peroxide and does not decompose under foreseen conditions of use 10,2 > 20,5 mm2/s 7.000 - 10.000 mPa.s Brookfield viscosity (LVT, RVT, HBT) Partially soluble Not applicable
conducted prior to using this product to determine Personal protective equipment should conform to <b>SECTION 9:</b> <b>Cormation on basic physical and chemical prop</b> Delivery form Colour Odor Physical state Melting point Solidification temperature Initial boiling point Flammability Explosive limits Flash point Auto-ignition temperature Decomposition temperature Decomposition temperature pH (23 °C (73 °F); Conc.: 100 % product) Viscosity (kinematic) (40 °C (104 °F); ) Viscosity, dynamic (Brookfield; Instrument: LVT; 20 °C (68 °F); speed of rotation: 12 min-1; Spindle No: 3) Solubility (qualitative) (23 °C (73.4 °F); Solvent: Water) Partition coefficient: n-octanol/water	e the appropriate personal protective equipment to suit local conditions. the relevant EN standard. <b>Physical and chemical properties</b> perties liquid white slightly, ammoniacal liquid Not applicable, Product is a liquid 0 °C (32 °F) 100 °C (212 °F) The product is not flammable. Not applicable, The product is not flammable. Not applicable, No flash point up to 100°C. Aqueous preparation. > 300 °C (> 572 °F) Not applicable, Substance/mixture is not self-reactive, no organic peroxide and does not decompose under foreseen conditions of use 10,2 > 20,5 mm2/s 7.000 - 10.000 mPa.s Brookfield viscosity (LVT, RVT, HBT) Partially soluble Not applicable Not applicable
The information provided on personal protective conducted prior to using this product to determine Personal protective equipment should conform to <b>SECTION 9:</b> <b>Cormation on basic physical and chemical prop</b> Delivery form Colour Odor Physical state Melting point Solidification temperature Initial boiling point Flammability Explosive limits Flash point Auto-ignition temperature Decomposition temperature Decomposition temperature pH (23 °C (73 °F); Conc.: 100 % product) Viscosity (kinematic) (40 °C (104 °F); ) Viscosity, dynamic (Brookfield; Instrument: LVT; 20 °C (68 °F); speed of rotation: 12 min-1; Spindle No: 3) Solubility (qualitative) (23 °C (73.4 °F); Solvent: Water)	e the appropriate personal protective equipment to suit local conditions. b the relevant EN standard. Physical and chemical properties perties liquid white slightly, ammoniacal liquid Not applicable, Product is a liquid 0 °C (32 °F) 100 °C (212 °F) The product is not flammable. Not applicable, The product is not flammable. Not applicable, No flash point up to 100 °C. Aqueous preparation. > 300 °C (> 572 °F) Not applicable, Substance/mixture is not self-reactive, no organic peroxide and does not decompose under foreseen conditions of use 10,2 > 20,5 mm2/s 7.000 - 10.000 mPa.s Brookfield viscosity (LVT, RVT, HBT) Partially soluble Not applicable

(20 °C) Particle characteristics

Not applicable Product is a liquid

## 9.2. Other information

Other information not applicable for this product

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

#### 10.1. Reactivity

None if used for intended purpose.

#### 10.2. Chemical stability

Stable under recommended storage conditions.

#### 10.3. Possibility of hazardous reactions

See section reactivity

#### **10.4. Conditions to avoid** None if used for intended purpose.

# 10.5. Incompatible materials

None if used properly.

#### **10.6. Hazardous decomposition products** None known.

# SECTION 11: Toxicological information

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

#### Acute oral toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value	Value	Species	Method
Rubber, natural 9006-04-6	type LD50	2.043 - 2.210 mg/kg	rat	not specified
Rubber, natural 9006-04-6	Acute toxicity estimate (ATE)	2.043 mg/kg		Expert judgement
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene 68610-51-5	LD50	> 5.000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
2,2',2"-(hexahydro-1,3,5- triazine-1,3,5- triyl)triethanol 4719-04-4	LD50	1.000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
thiram 137-26-8	LD50	1.800 mg/kg	rat	not specified

## Acute dermal toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene 68610-51-5	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
2,2',2"-(hexahydro-1,3,5- triazine-1,3,5- triyl)triethanol 4719-04-4	LD50	> 4.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
thiram 137-26-8	LD50	> 2.000 mg/kg	rabbit	EPA OPP 81-2 (Acute Dermal Toxicity)

#### Acute inhalative toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Test atmosphere	Exposure time	Species	Method
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene 68610-51-5	LC50	> 165 mg/l	dust/mist	4 h	rat	not specified
2,2',2"-(hexahydro-1,3,5- triazine-1,3,5- triyl)triethanol 4719-04-4	LC50	0,371 mg/l	dust/mist	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)
thiram 137-26-8	LC50	4,42 mg/l	dust/mist	4 h	rat	EPA OPP 81-3 (Acute inhalation toxicity)

#### Skin corrosion/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene 68610-51-5	not irritating	4 h	rabbit	EPA Guideline
ammonia, aqueous solution 1336-21-6	corrosive		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
2,2',2"-(hexahydro-1,3,5- triazine-1,3,5- triyl)triethanol 4719-04-4	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

## Serious eye damage/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene 68610-51-5	slightly irritating	24 h	rabbit	EPA Guideline
ammonia, aqueous solution 1336-21-6	corrosive			not specified
2,2',2"-(hexahydro-1,3,5- triazine-1,3,5- triyl)triethanol 4719-04-4	irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
thiram 137-26-8	irritating		rabbit	EPA OPP 81-4 (Acute Eye Irritation)

## Respiratory or skin sensitization:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Species	Method
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene 68610-51-5	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
ammonia, aqueous solution 1336-21-6	not sensitising	not specified	guinea pig	not specified
2,2',2"-(hexahydro-1,3,5- triazine-1,3,5- triyl)triethanol 4719-04-4	sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
thiram 137-26-8	sensitising	Split adjuvant test	guinea pig	EPA OPP 81-6 (Skin Sensitisation)

## Germ cell mutagenicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene 68610-51-5	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene 68610-51-5	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene 68610-51-5	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
ammonia, aqueous solution 1336-21-6	negative	bacterial reverse mutation assay (e.g Ames test)	not specified		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
2,2',2"-(hexahydro-1,3,5- triazine-1,3,5- triyl)triethanol 4719-04-4	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
2,2',2"-(hexahydro-1,3,5- triazine-1,3,5- triyl)triethanol 4719-04-4	positive	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
2,2',2"-(hexahydro-1,3,5- triazine-1,3,5- triyl)triethanol 4719-04-4	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
thiram 137-26-8	positive	bacterial reverse mutation assay (e.g Ames test)	with and without		EPA OPP 84-2 (Mutagenicity Testing)
thiram 137-26-8	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
thiram 137-26-8	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
ammonia, aqueous solution 1336-21-6	negative	intraperitoneal		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
2,2',2"-(hexahydro-1,3,5- triazine-1,3,5- triyl)triethanol 4719-04-4	negative	intraperitoneal		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
thiram 137-26-8	negative	oral: gavage		mouse	EU Method B.24 (Mouse Spot Test)
thiram 137-26-8	negative	oral: gavage		mouse	OECD Guideline 483 (Mammalian Spermatogonial Chromosome Aberration Test)
thiram 137-26-8	negative	intraperitoneal		mouse	EPA OPP 84-2 (Mutagenicity Testing)

## Carcinogenicity

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Sex	Method
ammonia, aqueous solution 1336-21-6	not carcinogenic	oral: feed	104 w daily	rat		OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

## **Reproductive toxicity:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Test type	Route of application	Species	Method
ammonia, aqueous solution 1336-21-6	NOAEL P 408 mg/kg	screening	oral: unspecified	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

#### STOT-single exposure:

No data available.

## STOT-repeated exposure:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Route of application	Exposure time / Frequency of treatment	Species	Method
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene 68610-51-5	NOAEL 500 ppm	oral: feed	90 Days Daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
2,2',2"-(hexahydro-1,3,5- triazine-1,3,5- triyl)triethanol 4719-04-4	NOAEL 100 mg/kg	oral: gavage	12 weeks daily, 5 d/week	rat	EU Method B.7 (Repeated Dose (28 Days) Toxicity (Oral))
2,2',2"-(hexahydro-1,3,5- triazine-1,3,5- triyl)triethanol 4719-04-4	NOAEL 64 mg/kg	oral: gavage	3 months continuously	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
2,2',2"-(hexahydro-1,3,5- triazine-1,3,5- triyl)triethanol 4719-04-4	NOAEL 250 mg/kg	dermal	90 d 6 h/d, 5 d/week	rat	EPA OPPTS 870.3250 (Subchronic Dermal Toxicity 90 Days)
thiram 137-26-8	NOAEL 3,5 - 4 mg/kg	oral: feed	90 d daily	rat	EU Method B.26 (Sub- Chronic Oral Toxicity Test: Repeated Dose 90- Day Oral Toxicity Study in Rodents)

#### Aspiration hazard:

No data available.

## **11.2 Information on other hazards**

not applicable

# **SECTION 12:** Ecological information

#### General ecological information:

Do not empty into drains, soil or bodies of water.

#### 12.1. Toxicity

#### Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Rubber, natural	LC50	> 10.000 mg/l	96 h	Brachydanio rerio (new name:	OECD Guideline 203 (Fish,
9006-04-6				Danio rerio)	Acute Toxicity Test)
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	LC50	Toxicity > Water solubility	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
68610-51-5					
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene 68610-51-5	NOELR	Toxicity > Water solubility	34 d	Pimephales promelas	OECD Guideline 210 (fish early lite stage toxicity test)
ammonia, aqueous solution 1336-21-6	LC50	0,16 - 1,1 mg/l	96 h	Salmo gairdneri (new name: Oncorhynchus mykiss)	OECD Guideline 203 (Fish, Acute Toxicity Test)
ammonia, aqueous solution 1336-21-6	NOEC	< 0,048 mg/l	31 d	Channel catfish	OECD Guideline 215 (Fish, Juvenile Growth Test)
2,2',2"-(hexahydro-1,3,5- triazine-1,3,5-triyl)triethanol 4719-04-4	LC50	16,07 mg/l	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
thiram 137-26-8	LC50	0,046 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
thiram 137-26-8	NOEC	0,0046 mg/l	33 d	Pimephales promelas	OECD Guideline 210 (fish early lite stage toxicity test)

#### **Toxicity (aquatic invertebrates):**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene 68610-51-5	EC50	Toxicity > Water solubility	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
ammonia, aqueous solution 1336-21-6	EC50	25,4 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
2,2',2"-(hexahydro-1,3,5- triazine-1,3,5-triyl)triethanol 4719-04-4	EC50	11,9 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
thiram 137-26-8	EC50	0,21 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

#### Chronic toxicity (aquatic invertebrates):

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Phenol, 4-methyl-, reaction	NOELR	Toxicity > Water	21 d	Daphnia magna	OECD 211 (Daphnia

products with dicyclopentadiene and isobutylene 68610-51-5		solubility			magna, Reproduction Test)
ammonia, aqueous solution 1336-21-6	NOEC	0,79 mg/l	96 h	Daphnia magna	EPA OPPTS 850.1300 (Daphnid Chronic Toxicity Test)
thiram 137-26-8	NOEC	0,04 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)

## Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene 68610-51-5	NOEC	Toxicity > Water solubility	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene 68610-51-5	EC50	Toxicity > Water solubility	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
ammonia, aqueous solution 1336-21-6	EC50	> 1.000 mg/l	72 h	Skeletonema costatum	ISO 10253 (Water quality)
ammonia, aqueous solution 1336-21-6	NOEC	1.000 mg/l	72 h	Skeletonema costatum	ISO 10253 (Water quality)
2,2',2"-(hexahydro-1,3,5- triazine-1,3,5-triyl)triethanol 4719-04-4	NOEC	1,56 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
2,2',2"-(hexahydro-1,3,5- triazine-1,3,5-triyl)triethanol 4719-04-4	EC50	6,66 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
thiram 137-26-8	EC50	1 mg/l	96 h	Chlorella pyrenoidosa	OECD Guideline 201 (Alga, Growth Inhibition Test)

#### Toxicity (microorganisms):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value	Value	Exposure time	Species	Method
Rubber, natural 9006-04-6	type EC 50	> 10.000 mg/l			OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
2,2',2"-(hexahydro-1,3,5- triazine-1,3,5-triyl)triethanol 4719-04-4	EC20	170 mg/l	30 min	activated sludge, domestic	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
thiram 137-26-8	EC0	> 200 mg/l			not specified

12.2. Persistence and degradability

The table below presents the data of the classified substances present in the mixture.

Hazardous substances	Result	Test type	Degradability	Exposure	Method
CAS-No.				time	
Phenol, 4-methyl-, reaction	not inherently	aerobic	1 %	28 d	OECD Guideline 302 B (Inherent
products with	biodegradable				biodegradability: Zahn-
dicyclopentadiene and					Wellens/EMPA Test)
isobutylene					
68610-51-5					
2,2',2"-(hexahydro-1,3,5-	readily biodegradable	aerobic	> 90 - 100 %	8 d	OECD Guideline 301 A (new
triazine-1,3,5-triyl)triethanol					version) (Ready Biodegradability:
4719-04-4					DOC Die Away Test)
thiram		aerobic	20 - 40 %	28 d	OECD Guideline 301 D (Ready
137-26-8					Biodegradability: Closed Bottle
					Test)

#### 12.3. Bioaccumulative potential

No data available.

## 12.4. Mobility in soil

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	LogPow	Temperature	Method
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene 68610-51-5	7,56	30 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)
ammonia, aqueous solution 1336-21-6	-1,14		EU Method A.8 (Partition Coefficient)
2,2',2"-(hexahydro-1,3,5- triazine-1,3,5-triyl)triethanol 4719-04-4	-2	24 °C	EU Method A.8 (Partition Coefficient)
thiram 137-26-8	1,73	20 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)

#### 12.5. Results of PBT and vPvB assessment

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	PBT / vPvB
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene 68610-51-5	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
ammonia, aqueous solution 1336-21-6	According to Annex XIII of regulation (EC) 1907/2006 a PBT and vPvB assessment shall not be conducted for inorganic substances.
2,2',2"-(hexahydro-1,3,5- triazine-1,3,5- triyl)triethanol 4719-04-4	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
thiram 137-26-8	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

#### **12.6. Endocrine disrupting properties**

not applicable

## 12.7. Other adverse effects

No data available.

# **SECTION 13: Disposal considerations**

#### **13.1.** Waste treatment methods

#### Product disposal:

Dispose of waste and residues in accordance with local authority requirements.

Disposal of uncleaned packages: Use packages for recycling only when totally empty.

Waste code 080409

# **SECTION 14: Transport information**

14.1.	UN number	UN number or ID number				
	ADR	Not dangerous goods				
	RID	Not dangerous goods				
	ADN	Not dangerous goods				
	IMDG	Not dangerous goods				
	IATA	Not dangerous goods				
14.2.	UN proper	shipping name				
	ADR	Not dangerous goods				
	RID	Not dangerous goods				
	ADN	Not dangerous goods				
	IMDG	Not dangerous goods				
	IATA	Not dangerous goods				
14.3.	Transport hazard class(es)					
	ADR	Not dangerous goods				
	RID	Not dangerous goods				
	ADN	Not dangerous goods				
	IMDG	Not dangerous goods				
	IATA	Not dangerous goods				
14.4.	Packing group					
	ADR	Not dangerous goods				
	RID	Not dangerous goods				
	ADN	Not dangerous goods				
	IMDG	Not dangerous goods				
	IATA	Not dangerous goods				
14.5.	Environme	ntal hazards				
	ADR	not applicable				
	RID	not applicable				
	ADN	not applicable				
	IMDG	not applicable				
	IATA	not applicable				
14.6.	Special precautions for user					
	ADR	not applicable				
	RID	not applicable				
	ADN	not applicable				
	IMDG	not applicable				
	IATA	not applicable				
14.7.	Maritime transport in bulk according to IMO instruments					

not applicable

## **SECTION 15: Regulatory information**

No information available:

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

Ozone Depleting Substance (ODS) (Regulation (EC) No 1005/2009): Prior Informed Consent (PIC) (Regulation (EU) No 649/2012):

Persistent organic pollutants (Regulation (EU) 2019/1021):

## 15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

Not applicable

Not applicable

thiram CAS 137-26-8

## **SECTION 16: Other information**

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows: H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H330 Fatal if inhaled. H332 Harmful if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H361d Suspected of damaging the unborn child. 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. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H413 May cause long lasting harmful effects to aquatic life. ED: Substance identified as having endocrine disrupting properties EU OEL: Substance with a Union workplace exposure limit Substance listed in Annex I, Reg (EC) No. 2019/1148 EU EXPLD 1: Substance listed in Annex II, Reg (EC) No. 2019/1148 EU EXPLD 2 SVHC: Substance of very high concern (REACH Candidate List)

bioaccumulative criteria

vPvB:

PBT: PBT/vPvB:

#### Further information:

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Substance fulfilling persistent, bioaccumulative and toxic criteria

Substance fulfilling very persistent and very bioaccumulative criteria

Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

#### Dear Customer,

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