Telefax: +49 (621) 8504200

Telephone: +49 (621) 8504303



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Rhenofol-Kontaktkleber 20

Revision date: 21.01.2021 Product code: FDT-019 Page 1 of 13

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

1.1. Product identifier

Rhenofol-Kontaktkleber 20 UFI: 0AT5-0GMY-V00K-RS37

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

Use of the substance/mixture

adhesives

Uses advised against

Only use for the intended purpose.

The product is intended for professional use.

1.3. Details of the supplier of the safety data sheet

Company name: FDT Flachdach Technologie GmbH

Street: Eisenbahnstraße 6-8
Place: D-68199 Mannheim
Telephone: +49 (621) 8504100

e-mail: kundenservice@fdt.de

Contact person: Fachkraft für Arbeitssicherheit

e-mail: gefahrstoffe@fdt.de Internet: http://www.fdt.de

Responsible Department: Arbeitssicherheit und Umweltschutz

1.4. Emergency telephone Emergency Action: In the event of a medical enquiry involving this product,

number: please contact your doctor or local hospital accident and emergency department

or the NHS enquiry service.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Flammable liquid: Flam. Liq. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Specific target organ toxicity - single exposure: STOT SE 3

Hazard Statements:

Highly flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness or dizziness.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

ethyl acetate

acetone; propan-2-one; propanone butanone; ethyl methyl ketone Signal word: Danger

Pictograms:





Hazard statements

H225 Highly flammable liquid and vapour.



according to Regulation (EC) No 1907/2006

Revision date: 21.01.2021 Product code: FDT-019 Page 2 of 13

H319 Causes serious eye irritation.H336 May cause drowsiness or dizziness.

Precautionary statements

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

smokina.

P241 Use explosion-proof electrical/ventilating/lighting equipment.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

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

protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water

or shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

Special labelling of certain mixtures

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

The components in this mixture do not meet the criteria for classification as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name				
	EC No	Index No	REACH No		
	GHS Classification				
141-78-6	ethyl acetate			25 -< 50 %	
	205-500-4	607-022-00-5	01-2119475103-46		
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066				
67-64-1	acetone; propan-2-one; propanon		25 -< 50 %		
	200-662-2	606-001-00-8	01-2119471330-49		
	Flam. Liq. 2, Eye Irrit. 2, STOT SE				
78-93-3	butanone; ethyl methyl ketone			5 -< 10 %	
	201-159-0	606-002-00-3	01-2119457290-43		
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066				

Full text of H and EUH statements: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of troubles or persistent symptoms, consult an doctor/physician.

Remove persons from danger area and lie them down. Never orally infuse something to an unconscious person. No special first aid measures necessary. A vomiting, supine person must be brought into recovery position.

After inhalation

Provide fresh air. In case of respiratory tract irritation, consult a physician.

In case of irregular breathing or respiratory arrest, perform artificial respiration.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Change contaminated clothing.



according to Regulation (EC) No 1907/2006

Rhenofol-Kontaktkleber 20

Revision date: 21.01.2021 Product code: FDT-019 Page 3 of 13

After contact with eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

After ingestion

Rinse mouth, spit liquid again. Do NOT induce vomiting. Let water be drunken in little sips (dilution effect). Call a physician immediately.

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

Causes serious eye irritation.

Following eye contact: Irritation and reddening.

May cause drowsiness or dizziness.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO2). Extinguishing powder. Water spray. Fight larger fires with water spray jet or alcohol-resistant foam.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to harmful gases and vapours.

5.3. Advice for firefighters

Co-ordinate fire-fighting measures to the fire surroundings. Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

Do not allow to enter into surface water or drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Keep away from sources of ignition - No smoking. Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7

Personal precautions: refer to section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Provide adequate ventilation as well as local exhaustion at critical locations. Handle and open container with



according to Regulation (EC) No 1907/2006

Rhenofol-Kontaktkleber 20

Revision date: 21.01.2021 Product code: FDT-019 Page 4 of 13

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store only in original container. Keep container tightly closed in a cool, well-ventilated place.

7.3. Specific end use(s)

adhesives

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
67-64-1	Acetone	500	1210		TWA (8 h)	WEL
		1500	3620		STEL (15 min)	WEL
78-93-3	Butan-2-one (methyl ethyl ketone)	200	600		TWA (8 h)	WEL
		300	899		STEL (15 min)	WEL
141-78-6	Ethyl acetate	200	734		TWA (8 h)	WEL
		400	1468		STEL (15 min)	WEL

Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
78-93-3	Butan-2-one	butan-2-one	70 µmol/L	urine	Post shift



according to Regulation (EC) No 1907/2006

Rhenofol-Kontaktkleber 20

Revision date: 21.01.2021 Product code: FDT-019 Page 5 of 13

DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
141-78-6	ethyl acetate			
Worker DNEL,	acute	inhalation	systemic	1468 mg/m³
Worker DNEL,	long-term	dermal	systemic	63 mg/kg bw/day
Consumer DN	EL, long-term	dermal	systemic	37 mg/kg bw/day
Worker DNEL,	long-term	inhalation	systemic	734 mg/m³
Consumer DN	EL, long-term	oral	systemic	4,5 mg/kg bw/day
Consumer DN	EL, acute	inhalation	systemic	734 mg/m³
Consumer DN	EL, long-term	inhalation	systemic	367 mg/m³
67-64-1	acetone; propan-2-one; propanone			
Consumer DNEL, long-term oral			62 mg/kg bw/day	
Consumer DNEL, long-term		dermal		62 mg/kg bw/day
Worker DNEL, long-term		dermal		186 mg/kg bw/day
Consumer DN	EL, long-term	inhalation		200 mg/m³
Worker DNEL,	acute	inhalation		2420 mg/m³
Worker DNEL,	long-term	inhalation		1210 mg/m³
78-93-3	butanone; ethyl methyl ketone			
Worker DNEL, long-term		dermal	systemic	1161 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	600 mg/m³
Consumer DNEL, acute		dermal	local	412
Consumer DN	EL, long-term	inhalation	systemic	106 mg/m³
Consumer DN	EL, long-term	oral	systemic	31 mg/kg bw/day



according to Regulation (EC) No 1907/2006

Rhenofol-Kontaktkleber 20

Revision date: 21.01.2021 Product code: FDT-019 Page 6 of 13

PNEC values

CAS No	Substance				
Environmental compartment Value					
141-78-6	ethyl acetate				
Freshwater		0,26 mg/l			
Marine water	r	0,026 mg/l			
Freshwater s	sediment	1,25 mg/kg			
Marine sedin	nent	0,125 mg/kg			
Secondary p	oisoning	200 mg/kg			
Micro-organi	sms in sewage treatment plants (STP)	650 mg/l			
Soil		0,24 mg/kg			
67-64-1	acetone; propan-2-one; propanone				
Freshwater		10,6 mg/l			
Marine water		1,06 mg/l			
Soil		29,5 mg/kg			
Marine sediment		3,04 mg/kg			
Freshwater s	sediment	30,4 mg/kg			
Micro-organi	sms in sewage treatment plants (STP)	100 mg/l			
78-93-3	butanone; ethyl methyl ketone				
Freshwater 55,8 mg		55,8 mg/l			
Marine water 55,8 mg/l		55,8 mg/l			
Micro-organisms in sewage treatment plants (STP) 709 mg/l		709 mg/l			
Soil 22,5 mg/kg					

8.2. Exposure controls

Protective and hygiene measures

Change contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink. Avoid skin, eye and clothing contact. After contact with skin, wash immediately with plenty of water and soap or a suitable cleaning agent.

Eye/face protection

Tighty fitting safety glasses with side shields.

Hand protection

Protect skin by using skin protective cream. Wear suitable gloves.

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Suitable material: Butyl rubber.

Thickness of glove material: >= 0,7 mm

Skin protection

Full cover clothing covering arms and legs.

Respiratory protection

Use protective filter mask in case of short-term and low exposure; in case of intense or longer exposure, use respiratory protection device operating independently from circulating air.



according to Regulation (EC) No 1907/2006

Rhenofol-Kontaktkleber 20

Revision date: 21.01.2021 Product code: FDT-019 Page 7 of 13

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: viscous
Colour: opaque
Odour: characteristic

Test method

pH-Value: not determined

Changes in the physical state

Melting point:

Initial boiling point and boiling range:

55 °C

Flash point:

-18 °C

Flammability

Gas: not determined

Explosive properties

The product is not explosive, however, formation of explosive mixtures are possible.

Lower explosion limits: 1,8 vol. %
Upper explosion limits: 13,0 vol. %
Ignition temperature: 460 °C

Auto-ignition temperature

Gas: not determined Decomposition temperature: not determined

Oxidizing properties

not determined

Vapour pressure: 247 hPa

(at 20 °C)

Density (at 20 °C): 0,95 g/cm³ ISO 2811

Water solubility: The study does not need to be conducted

because the substance is known to be insoluble in water.

not determined

Viscosity / dynamic: 2000 mPa·s ISO 2555

(at 20 °C)

Partition coefficient:

Viscosity / kinematic: not determined
Vapour density: not determined
Solvent content: not determined

9.2. Other information

No further information availible.

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactivity under regular conditions.

10.2. Chemical stability

The product is stable under regular conditions.

10.3. Possibility of hazardous reactions



according to Regulation (EC) No 1907/2006

Rhenofol-Kontaktkleber 20

Revision date: 21.01.2021 Product code: FDT-019 Page 8 of 13

No known hazardous reactions.

10.4. Conditions to avoid

No information available.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

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

CAS No	Chemical name							
	Exposure route	Dose		Species	Source	Method		
141-78-6	ethyl acetate							
	oral	LD50 mg/kg	4100	Mouse				
	dermal	LD50 mg/kg	>20000	Rabbit				
67-64-1	acetone; propan-2-one; propanone							
	oral	LD50 mg/kg	5800	Rat	OECD 401			
	dermal	LD50 mg/kg	>15800	Rat				
	inhalation (4 h) vapour	LC50	76 mg/l	Rat				
78-93-3	butanone; ethyl methyl k	etone						
	oral	LD50 mg/kg	>2193	Rat	OECD 423			
	dermal	LD50 mg/kg	>5000	Rabbit	OECD 402			
	inhalation (4 h) vapour	LC50	34 mg/l	Rat				

Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

May cause drowsiness or dizziness. (ethyl acetate; acetone; propan-2-one; propanone)

STOT-repeated exposure

Repeated exposure may cause skin dryness or cracking.

Aspiration hazard

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

SECTION 12: Ecological information

12.1. Toxicity

There are no data available on the mixture itself.



according to Regulation (EC) No 1907/2006

Rhenofol-Kontaktkleber 20

Revision date: 21.01.2021 Product code: FDT-019 Page 9 of 13

CAS No	Chemical name							
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method	
141-78-6	ethyl acetate							
	Acute fish toxicity	LC50	230 mg/l	96 h	Pimephales promelas			
	Acute crustacea toxicity	EC50	165 mg/l	48 h	Daphnia magna			
	Algae toxicity	NOEC mg/l	>100	3 d	Desmodesmus subspicatus			
67-64-1	acetone; propan-2-one; propanone							
	Acute fish toxicity	LC50 mg/l	5540		Onchorhynchus mykiss			
	Acute crustacea toxicity	EC50 mg/l	6100	48 h	Daphnia magna			
	Algae toxicity	NOEC mg/l	4740	2 d	Selenastrum capricornutum			
78-93-3	butanone; ethyl methyl ke	tone						
	Acute fish toxicity	LC50 mg/l	2990	96 h	Pimephales promelas	OECD 203		
	Acute algae toxicity	ErC50 mg/l	1972	72 h	Pseudokirchneriella subcapitata	OECD 201		
	Acute crustacea toxicity	EC50	308 mg/l	48 h	Daphnia magna	OECD 202		

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
67-64-1	acetone; propan-2-one; propanone	-0,24

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

The components in this mixture do not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Disposal according to official regulations.

Consult the local waste disposal expert about waste disposal. According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

List of Wastes Code - residues/unused products

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF

COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products);

waste adhesives and sealants containing organic solvents or other hazardous substances;

hazardous waste

List of Wastes Code - contaminated packaging



according to Regulation (EC) No 1907/2006

Rhenofol-Kontaktkleber 20

Revision date: 21.01.2021 Product code: FDT-019 Page 10 of 13

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND

PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by

hazardous substances; hazardous waste

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number:UN 113314.2. UN proper shipping name:Adhesives

14.3. Transport hazard class(es):314.4. Packing group:IIIHazard label:3



Classification code: F1
Special Provisions: 640H
Limited quantity: 5 L
Excepted quantity: E1
Transport category: 3
Hazard No: 33
Tunnel restriction code: D/E

Inland waterways transport (ADN)

14.1. UN number:UN 113314.2. UN proper shipping name:Adhesives

14.3. Transport hazard class(es):314.4. Packing group:IIIHazard label:3



Classification code: F1
Special Provisions: 640H
Limited quantity: 5 L
Excepted quantity: E1

Marine transport (IMDG)

14.1. UN number: UN 1133
14.2. UN proper shipping name: Adhesives

14.3. Transport hazard class(es):314.4. Packing group:IIIHazard label:3



Special Provisions: 223, 955



according to Regulation (EC) No 1907/2006

	Rhenofol-Kontaktkleber 20	
Revision date: 21.01.2021	Product code: FDT-019	Page 11 of 13

Limited quantity: 5 L
Excepted quantity: E1
EmS: F-E, S-D

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number:UN 113314.2. UN proper shipping name:Adhesives

14.3. Transport hazard class(es):314.4. Packing group:IIIHazard label:3



Special Provisions:

Limited quantity Passenger:

Passenger LQ:

Excepted quantity:

A3

10 L

Y344

Excepted quantity:

E1

IATA-packing instructions - Passenger: 355
IATA-max. quantity - Passenger: 60 L
IATA-packing instructions - Cargo: 366
IATA-max. quantity - Cargo: 220 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No special precautions known.

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

not applicable

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3

Additional information

Regulation (EC) No. 1005/2009 on substances that lead to the depletion of the ozone layer: not applicable

Regulation (EC) No. 648/2004 (Detergents regulation): not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants: not applicable

Regulation (EC) No 649/2012 of the European Parliament and of the Council concerning the export and import of dangerous chemicals: This mix contains no chemicals that are subject to the export notification procedures (annex 1).

This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: none

This mixture contains the following substances of very high concern (SVHC) which are subject to authorisation according to Annex XIV of REACH: none

National regulatory information

Water hazard class (D): 1 - slightly hazardous to water

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.



according to Regulation (EC) No 1907/2006

Rhenofol-Kontaktkleber 20

Revision date: 21.01.2021 Product code: FDT-019 Page 12 of 13

SECTION 16: Other information

Changes

Version 1,00 - Creation - 23.05.2014

Version 1,01 - Classification/Labeling according Regulation No.1272/2008 (GHS/CLP) and general revision -

16.06.2015

Version 1,02- General update - 21.01.2021

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

BImSchV (Fed.Imm.Prot.Act): Directive on the Implementation of the Federal Immission Protection Act

CAS: Chemical Abstracts Service

DIN: Norm of the Deutsche Institut für Normung (German Institute for Standardization)

EC: Effective Concentration

EG: European Community (Europäische Gemeinschaft)

EN: European Norm

IATA: International Air Transport Association

IBC Code: International Code for the Construction and Equipment of ships carrying Dangerous Chemicals in

Bulk

ICAO: International Civil Aviation Organization

IMDG: International Maritime Code for Dangerous Goods

ISO: Norm of the International Standards Organization

CLP: Classification, Labeling, Packaging

IUCLID: International Uniform Chemical Information Database

LC: Lethal concentration

LD: Lethal dose

log Kow: Octanol/water partition coefficient

MARPOL: Maritime Pollution Convention = Convention for the Prevention of Maritime Pollution from Ships

OECD: Organisation for Economic Co-operation and Development

PBT: Persistent, bio-cumulative, toxic

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail

TRGS: Technische Regeln für Gefahrstoffe

UN: United Nations

VOC: Volatile Organic Compounds

vPvB: very persistent and very bio-cumulative

WGK: German Water Hazard Class

GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

DNEL: Derived No Effect Level

PNEC: Predicted No Effect Concentration

TLV: Threshold Limiting Value STOT: Specific Target Organ Toxicity

AwSV: Ordinance on Installations for Handling Substances Hazardous to Water

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

oldomiodion for mixtures and deed statedion method decorating to Regulation (15) No. 12722000 [OLI]					
Classification	Classification procedure				
Flam. Liq. 2; H225	On basis of test data				
Eye Irrit. 2; H319	Calculation method				
STOT SE 3; H336	Calculation method				

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.



according to Regulation (EC) No 1907/2006

Rhenofol-Kontaktkleber 20

Revision date: 21.01.2021 Product code: FDT-019 Page 13 of 13

EUH066

Repeated exposure may cause skin dryness or cracking.

Further Information

The information given in this safety data sheet is to describe the product's safety regulations. It is not for guaranteeing certain characteristics and is based on today's knowledge. The safety data sheet was generated upon information of pre-suppliers by:

asseso AG, Ottostraße 1, 63741, Aschaffenburg, Germany Phone: +49 (0)6021 - 1 50 86-0, Fax: +49 (0)6021 - 1 50 86-77, E-Mail: eu-sds@asseso.eu, www.asseso.eu

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)