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Safety Data Sheet

according to Regulation (EC) No 1907/2006

Rhepanol-Kleber 90

Revision date: 21.01.2021 Product code: FDT-004 Page 1 of 11

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

1.1. Product identifier

Rhepanol-Kleber 90

UFI: W7ED-9E4F-400X-Y6JW

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 Skin corrosion/irritation: Skin Irrit. 2

Specific target organ toxicity - single exposure: STOT SE 3 Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Highly flammable liquid and vapour.

Causes skin irritation.

May cause drowsiness or dizziness.

Toxic to aquatic life with long lasting effects.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics Hydrocarbons, C6, isoalkanes, <5% n-hexane

Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane

Signal word: Danger

Pictograms:









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Hazard statements

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

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

smoking.

P240 Ground and bond container and receiving equipment.
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.

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				
	Hydrocarbons, C7, n-alkanes, isoa	lkanes, cyclics		20 - < 25 %	
	927-510-4		01-2119475515-33		
	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411				
	Hydrocarbons, C6, isoalkanes, <5% n-hexane				
	931-254-9		01-2119484651-34		
	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411				
	Hydrocarbons, C6-C7, isoalkanes,		2,5 - 5 %		
	926-605-8		01-2119486291-36		
	Flam. Liq. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H336 H304 H411				
1314-13-2	zinc oxide				
	215-222-5	030-013-00-7			
	Aquatic Acute 1, Aquatic Chronic 1; H400 H410				

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

First aider: Pay attention to self-protection!

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.



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After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Subsequently wash off with: Polyethylene glykol 400. Change contaminated clothing. In case of skin irritation, consult a physician.

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

After skin 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). Sand. 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. Provide adequate ventilation.

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



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care.

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

DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
	Hydrocarbons, C7, n-alkanes, isoalkanes, cyc	lics		
Consumer Di	NEL, long-term	oral		149 mg/kg bw/day
Consumer Di	NEL, long-term	dermal		149 mg/kg bw/day
Worker DNEI	_, long-term	dermal		300 mg/kg bw/day
Consumer DI	NEL, long-term	inhalation		477 mg/m³
Worker DNEI	_, long-term	inhalation		2085 mg/m³
	Hydrocarbons, C6, isoalkanes, <5% n-hexane			
Consumer DI	NEL, long-term	dermal		1377 mg/kg bw/day
Worker DNEI	_, long-term	dermal		13964 mg/kg bw/day
Consumer Di	NEL, long-term	inhalation		1137 mg/m³
Worker DNEI	_, long-term	inhalation		5306 mg/m³
Consumer DI	NEL, long-term	oral		1301 mg/kg bw/day
	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5	% n-hexane		
Consumer DI	NEL, long-term	oral		1301 mg/kg bw/day
Consumer DI	NEL, long-term	dermal		1377 mg/kg bw/day
Worker DNEI	_, long-term	dermal		13964 mg/kg bw/day
Consumer DI	NEL, long-term	inhalation		1131 mg/m³
Worker DNEI	_, long-term	inhalation		5306 mg/m³
1314-13-2	zinc oxide			
Consumer DI	NEL, long-term	oral		0,83 mg/kg bw/day
Consumer DI	NEL, long-term	dermal		83,3 mg/kg bw/day
Worker DNEI		dermal		83,3 mg/kg bw/day
Consumer DI	NEL, long-term	inhalation		2,5 mg/m³
Worker DNEI	_, long-term	inhalation		5 mg/m³



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PNEC values

CAS No	Substance	
Environmental compartment Value		Value
1314-13-2 zinc oxide		
Freshwater		0,02 mg/l
Marine water		0,06 mg/l
Soil		35,6 mg/kg
Marine sediment		56,5 mg/kg
Freshwater sediment 117		117,8 mg/kg
Micro-organisms in sewage treatment plants (STP) 0,05 mg/l		0,05 mg/l

Additional advice on limit values

To date, no national critical limit values exist.

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

Under normal usage conditions, not necessary.

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: NBR (Nitrile rubber). Thickness of glove material:: 0,7 mm

penetration time (maximum wearing period): 8h

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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: liquid
Colour: white
Odour: like: Gasoline

Test method

Print date: 09.03.2021

pH-Value: not determined

Changes in the physical state

Melting point:

Initial boiling point and boiling range:

75 °C

Flash point:

-20 °C

Flammability



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Gas: not determined

Lower explosion limits: 1,2 vol. %
Upper explosion limits: 8,3 vol. %
Ignition temperature: > 200 °C

Auto-ignition temperature

Gas: not determined

Decomposition temperature: not determined

Oxidizing properties not determined

Vapour pressure: 0,15 hPa

(at 20 °C)

Density (at 20 °C): 1,04 g/cm³

Water solubility: The study does not need to be conducted

because the substance is known to be insoluble in water.

Partition coefficient: not determined

Viscosity / dynamic: 15500 mPa·s ISO 2555

(at 20 °C)

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

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.



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CAS No	Chemical name							
	Exposure route	Dose		Species	Source	Method		
	Hydrocarbons, C6, isoall	Hydrocarbons, C6, isoalkanes, <5% n-hexane						
	oral	LD50 mg/kg	5840	Rat				
	dermal	LD50 mg/kg	2920	Rabbit				
	inhalation (4 h) vapour	LC50	25,2 mg/l	Rat				
1314-13-2	zinc oxide							
	oral	LD50 mg/kg	> 5000	Rat				

Irritation and corrosivity

Causes skin irritation.

Serious eye damage/eye 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. (Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics; Hydrocarbons, C6, isoalkanes, <5% n-hexane)

STOT-repeated exposure

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

Aspiration hazard

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

SECTION 12: Ecological information

12.1. Toxicity

Toxic to aquatic life with long lasting effects.

CAS No	Chemical name							
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method	
	Hydrocarbons, C6, isoalkanes, <5% n-hexane							
	Acute fish toxicity	LC50	11,4 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout) Oncorhynchus mykiss (Rainbow trout)			
	Acute crustacea toxicity	EC50	3 mg/l	48 h	Daphnia magna			
	Crustacea toxicity	NOEC mg/l	0,17	21 d	Daphnia magna			
1314-13-2	zinc oxide							
	Acute fish toxicity	LC50 mg/l	1,31	96 h	Oncorhynchus mykiss (Rainbow trout)			
	Acute algae toxicity	ErC50 mg/l	0,21	72 h	Pseudokirchneriella subcapitata			
	Acute crustacea toxicity	EC50	2,2 mg/l	48 h	Daphnia magna			
	Algae toxicity	NOEC mg/l	0,04		Pseudokirchneriella subcapitata			

12.2. Persistence and degradability

No data available.



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12.3. Bioaccumulative potential

No data available.

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

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 1133



according to Regulation (EC) No 1907/2006

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14.2. 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 113314.2. UN proper shipping name:Adhesives

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



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

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes





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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

2004/42/EC (VOC): 39,9%

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): 2 - obviously hazardous to water

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Hydrocarbons, C6, isoalkanes, <5% n-hexane

Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane

SECTION 16: Other information

Changes

Version 1,00 - Creation - 24.01.2013

Version 1,01 - Classification/Labeling according Regulation No.1272/2008 (GHS/CLP) and general revision - 24.06.2015

Version 1,02 - Change and revision of the SDS because of new information / recipe - 02.09.2015

Version 1,03 - General update - 12.01.2021

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



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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

Highly flammable liquid and vapour.

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

oldosinoation for mixtures and dood statutation metrica decorating to Regulation (25) No. 1212200 [021]				
Classification Classification procedure				
Flam. Liq. 2; H225	On basis of test data			
Skin Irrit. 2; H315	Calculation method			
STOT SE 3; H336	Calculation method			
Aquatic Chronic 2; H411	Calculation method			

Relevant H and EUH statements (number and full text)

	inginy nanimazio ngala ana tapoani
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.

H336 May cause drowsiness or dizziness. H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Toxic to aquatic life with long lasting effects. H411

Further Information

The information given in this safety data sheet is to describe the product's safety regulations. It is not for quaranteeing 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.)