

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Rhepanol-Grundierung sk-L

Print date: 14.08.2015

Product code: RCSO-FDT-036

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

1.1. Product identifier

Rhepanol-Grundierung sk-L

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

Use of the substance/mixture

Adhesive

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 & Co. KG	
Street:	Eisenbahnstraße 6-8	
Place:	D-68199 Mannheim	
Telephone:	+49 (621) 8504100	Telefax: +49 (621) 8504200
e-mail:	kundenservice@fdt.de	
Contact person:	Marco Anderer	Telephone: +49 (621) 8504563
e-mail:	marco.anderer@fdt.de	
Internet:	http://www.fdt.de	
Responsible Department:	Arbeitssicherheit und Umweltschutz	

1.4. Emergency telephone number:

Poison Control Center (Mayence, GER)
+49 (0)6131-19240 (24h - de, en)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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 3
Hazard Statements:
Highly flammable liquid and vapour.
Causes skin irritation.
May cause drowsiness or dizziness.
Harmful to aquatic life with long lasting effects.

2.2. Label elements

Hazardous components which must be listed on the label

n-butyl acetate
Naphtha (petroleum), hydrotreated light

Signal word: Danger

Pictograms:



Hazard statements

H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.

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H336 May cause drowsiness or dizziness.
H412 Harmful 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.
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.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
123-86-4	n-butyl acetate			25-<50%
	204-658-1	607-025-00-1		
	Flam. Liq. 3, STOT SE 3; H226 H336 EUH066			
64742-49-0	Naphtha (petroleum), hydrotreated light			10-<20%
	265-151-9	649-328-00-1		
	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411			
90622-57-4	Iso-Alkanes (C9-12)			2,5-<10 %
	292-459-0			
	Flam. Liq. 3, Asp. Tox. 1, Aquatic Chronic 4; H226 H304 H413			

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

Further Information

benzene contents <01,% - solvent naphtha: according to CLP, Annex VI, Tab. 3.2: Carc.Cat. 2, Muta.Cat. 2, Xn; Annotation P: benzene contents <0,1%, Carc.Cat. 2 + Muta.Cat. 2 not applicable

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. Call a physician immediately.

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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 damage to organs through prolonged or repeated exposure.

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 exhaust at critical locations. Handle and open container with care.

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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)

Adhesive

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
123-86-4	Butyl acetate	150	724		TWA (8 h)	WEL
		200	966		STEL (15 min)	WEL

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
123-86-4	n-butyl acetate			
	Consumer DNEL, acute	inhalation		859,7 mg/m ³
	Consumer DNEL, long-term	inhalation		102,34 mg/m ³
	Worker DNEL, acute	inhalation		960 mg/m ³
	Worker DNEL, long-term	inhalation		480 mg/m ³
64742-49-0	Naphtha (petroleum), hydrotreated light			
	Consumer DNEL, acute	oral		699 mg/kg bw/day
	Consumer DNEL, long-term	oral		149 mg/kg bw/day
	Consumer DNEL, acute	dermal		699 mg/kg bw/day
	Consumer DNEL, long-term	dermal		149 mg/kg bw/day
	Worker DNEL, acute	dermal		733 mg/kg bw/day
	Worker DNEL, long-term	dermal		300 mg/kg bw/day
	Consumer DNEL, acute	inhalation		608 mg/m ³
	Consumer DNEL, long-term	inhalation		447 mg/m ³
	Worker DNEL, long-term	inhalation		2035 mg/m ³

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PNEC values

CAS No	Substance	
Environmental compartment		Value
123-86-4	n-butyl acetate	
Freshwater		0,18 mg/l
Marine water		0,018 mg/l
Freshwater (intermittent releases)		0,36 mg/l
Soil		0,0903 mg/kg
Marine sediment		0,0981 mg/kg
Freshwater sediment		0,981 mg/kg
Micro-organisms in sewage treatment plants (STP)		35,6 mg/l

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

Tightly fitting safety glasses with side shields. (DIN EN 166)

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: FKM (fluoro rubber)

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: according to product description
Odour: characteristic

Test method

pH-Value: not determined

Changes in the physical state

Melting point: not determined
Initial boiling point and boiling range: 78 °C
Flash point: -9 °C

Flammability

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Gas: not determined

Explosive properties

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

Lower explosion limits: 0,6 vol. %

Upper explosion limits: 7,7 vol. %

Ignition temperature: 200 °C

Auto-ignition temperature

Gas: not determined

Decomposition temperature: not determined

Oxidizing properties

not determined

Vapour pressure:
(at 20 °C) 61 hPaDensity (at 20 °C): 0,9 g/cm³ ISO 2811

Water solubility: insoluble

Partition coefficient: not determined

Viscosity / dynamic:
(at 20 °C) 550 mPa·s ISO 2555

Viscosity / kinematic: not determined

Vapour density: not determined

Solvent content: 59,0 %

9.2. Other information

Solid content: not determined

No further information available.

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

Pyrolysis products, toxic. chlorine compounds.

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 routes	Method	Dose	Species	Source
123-86-4	n-butyl acetate				
	oral	LD50	13100 mg/kg	Rat	
	dermal	LD50	>17600 mg/kg	Rabbit	
	inhalative (4 h) vapour	LC50	>21 mg/l	Rat	
64742-49-0	Naphtha (petroleum), hydrotreated light				
	oral	LD50	>5840 mg/kg	Rat	OECD 401
	dermal	LD50	>2920 mg/kg	Rabbit	OECD 402
90622-57-4	Iso-Alkanes (C9-12)				
	oral	LD50	>5000 mg/kg	Rat	OECD 401
	dermal	LD50	>5000 mg/kg	Rabbit	OECD 402
	inhalative vapour	LC50	>5000 mg/l	Rat	OECD 403

Irritation and corrosivity

Causes skin irritation.

Sensitising effects

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

STOT-single exposure

May cause drowsiness or dizziness. (n-butyl acetate), (Naphtha (petroleum), hydrotreated light)

Severe effects after repeated or prolonged exposure

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.

Aspiration hazard

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

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic life with long lasting effects.

n-butyl acetate (CAS No. 123-86-4):

EC10: 959 mg/l (Pseudomonas putida)

EC50:(18h) 959 mg/l (Pseudomonas putida)

EC50:(24h) 72,8 mg/l (Daphnia magna)

EC50:(72h) 674 mg/l (Scenedesmus subspicatus)

LC50:(96h) 62 mg/l (Leuciscus idus (golden orfe))

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CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	[h] [d]	Species	Source
64742-49-0	Naphtha (petroleum), hydrotreated light					
	Acute fish toxicity	LC50	11,4 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	OECD 203
	Acute algae toxicity	ErC50	30 mg/l	72 h	Pseudokirchneriella subcapitata	OECD 201
	Acute crustacea toxicity	EC50	3 mg/l	48 h	Daphnia magna (Big water flea)	OECD 203
90622-57-4	Iso-Alkanes (C9-12)					
	Acute algae toxicity	ErC50	1000 mg/l	72 h	Pseudokirchneriella subcapitata	
	Acute crustacea toxicity	EC50	1000 mg/l	48 h	Daphnia magna	
	Algae toxicity	NOEC	1000 mg/l		Pseudokirchneriella subcapitata	
	Crustacea toxicity	NOEC	0,011 mg/l	21 d	Daphnia magna	

12.2. Persistence and degradability

No data available.

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

Advice on disposal

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.

Waste disposal number of waste from 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 dangerous substances
Classified as 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 1133

14.2. UN proper shipping name: Adhesives

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14.3. Transport hazard class(es): 3

14.4. Packing group: II

Hazard label: 3



Classification code: F1

Special Provisions: 640D

Limited quantity: 5 L

Excepted quantity: E2

Transport category: 2

Hazard No: 33

Tunnel restriction code: D/E

Inland waterways transport (ADN)

14.1. UN number: UN 1133

14.2. UN proper shipping name: Adhesives

14.3. Transport hazard class(es): 3

14.4. Packing group: II

Hazard label: 3



Classification code: F1

Special Provisions: 640D

Limited quantity: 5 L

Excepted quantity: E2

Marine transport (IMDG)

14.1. UN number: UN 1133

14.2. UN proper shipping name: Adhesives

14.3. Transport hazard class(es): 3

14.4. Packing group: II

Hazard label: 3



Special Provisions: -

Limited quantity: 5 L

Excepted quantity: E2

EmS: F-E, S-D

Air transport (ICAO)

14.1. UN number: UN 1133

14.2. UN proper shipping name: Adhesives

14.3. Transport hazard class(es): 3

14.4. Packing group: II

Hazard label: 3

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Special Provisions:	A3	
Limited quantity Passenger:	1 L	
Passenger LQ:	Y341	
Excepted quantity:	E2	
IATA-packing instructions - Passenger:		353
IATA-max. quantity - Passenger:		5 L
IATA-packing instructions - Cargo:		364
IATA-max. quantity - Cargo:		60 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

Warning: Flammable liquids

14.7. Transport in bulk according to Annex II of MARPOL73/78 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

2004/42/EC (VOC): 530,0 g/l

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 689/2008 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 contaminating class (D): 1 - slightly water contaminating

15.2. Chemical safety assessment

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

SECTION 16: Other information

Changes

Version 1,00 - Creation - 11.08.2015

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

EC: Effective Concentration

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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
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
VOC: Volatile Organic Compounds
vPvB: very persistent and very bio-cumulative
VwVwS: Administrative Regulation for Water Pollutants
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

Relevant H- and EUH-phrases (Number and full text)

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
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:

REACheck Solutions GmbH, Mühlstraße 94a, 63741 Aschaffenburg, Germany
Phone: +49 (0)6021 - 1 50 86-0, Fax: +49 (0)6021 - 1 50 86-77, E-Mail: eu-sds@reacheck.eu,
www.reacheck.eu

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