

# Safety Data Sheet as per regulation (EC) 1907/2006

Commercial Product Name : K-RSD-PE 0134/1 FOLCO SOL K-RSD-PE

Article-No. : 17071-008

Revision date : 04.01.2017

Version : 1 /en

**FOLMANN**

Print date : 23.03.2017

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

### **1.1 Product identifier**

Commercial Product Name                      K-RSD-PE 0134/1 FOLCO SOL K-RSD-PE

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

Relevant identified uses                      wallpaper coating

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

Address    Follmann GmbH & Co. KG  
Postfach 12 63  
D-32372 Minden  
Telephone : +49 (571) 93 39 -0  
FAX : +49 (571) 93 39 -300

Contact person                                      Environmental Department

Responsible Department                      Environmental Department +49 (571) 9339-176

E-mail (competent person)                      sicherheitsdatenblatt@follmann.de

### **1.4 Emergency telephone number**

Emergency telephone number                      Outside USA: -001 703 527 3887 (D813)

## **SECTION 2: Hazards identification**

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

Classification according to Regula-              Eye Dam. 1; H318  
tion (EC) No. 1272/2008

### **2.2 Label elements**

Hazard pictogram



GHS05

Signal word    Danger

Hazardous component(s) to be indi-              Dodecanol ethoxyliert  
cated on label

H-statement(s)                                      H318: Causes serious eye damage.

P-statement(s)                                      P280: Wear protective gloves/protective clothing/eye protection/face protec-  
tion.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several min-  
utes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310: Immediately call a POISON CENTER or doctor/physician.

Further information                                      EUH208: Contains Alkylarylphosphit. May produce an allergic reaction.

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

### **3.2 Mixture**

Chemical characterization                      Dispersion of polyvinylchloride in plasticizer

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## Hazardous ingredients

Ingredient		Classification (EC) 1272/2008	Concentration
Dodecanol ethoxyliert	CAS No. : 9002-92-0 REACH No. : 01-2119968561-30-XXXX	Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 3; H412	1.0 - 5.0 % by weight
Fettsäuren, C14-18 und C16-18-Säuren Barium- salze	CAS No. : 95465-85-3 EC-No. : 305-998-4 REACH No. : 01-2119983180-39-XXXX	Acute Tox. 3; H301 Acute Tox. 4; H332	0.1 - 1.0 % by weight
Alkylarylphosphit	CAS No. : 26544-23-0 EC-No. : 247-777-4 REACH No. : 01-2119968254-31-XXXX	Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 2; H411	0.1 - 1.0 % by weight

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice	Move out of dangerous area. Take off all contaminated clothing immediately. Do not leave the victim unattended. Show this safety data sheet to the doctor in attendance.
In case of skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation occurs, seek medical advice/attention.
In case of eye contact	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
If swallowed	Rinse mouth. Do NOT induce vomiting. Call a physician immediately.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media	Carbon dioxide (CO <sub>2</sub> ), Foam, Water spray, Dry powder
Extinguishing media which must not be used for safety reasons	High volume water jet

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

Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases	Hazardous decomposition products formed under fire conditions. Exposure to decomposition products may be a hazard to health. Gaseous hydrogen chloride (HCl).
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### 5.3 Advice for firefighters

Special protective equipment for firefighting	In the event of fire, wear self-contained breathing apparatus.
Additional information on firefighting	Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Do not allow run-off from fire fighting to enter drains or water courses.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	Use personal protective equipment.
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### 6.2 Environmental precautions

Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.
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## 6.3 Methods and material for containment and cleaning up

Methods for cleaning up                      Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Clean contaminated surface thoroughly. Treat recovered material as described in the section "Disposal considerations".

## 6.4 Reference to other sections

Reference to other sections                      Disposal considerations See also section 13

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling                      Handle and open container with care. Avoid contact with skin and eyes. Do not breathe vapours or spray mist. Provide appropriate exhaust ventilation at machinery.

Precautions    Smoking, eating and drinking should be prohibited in the application area. For personal protection see section 8. Observe label precautions.

Advice on protection against fire and explosion                      No special protective measures against fire required.

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

Storage space and container requirements                      Keep in properly labelled containers. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Storage specifications                              Protect from frost.

TRGS 510    10

Recommended storage temperature                      0 - 30 °C  
0 - 30 °C

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Fettsäuren, C14-18 und C16-18-Säuren Bariumsalze

##### DNEL

Value	Target group	Exposure route	Exposure frequency	Source
8,8 mg/m <sup>3</sup>	Workers	inhale	Long term effects systemic	100
43,2 mg/kg	Workers	dermal	Long term effects systemic	100
2,6 mg/m <sup>3</sup>	Consumers	inhale	Long term effects systemic	100

Source : 100 - Firmendaten

##### PNEC

Value	Exposure route	Source
227,8 µg/l	freshwater	100
50,1 mg/l	STP	100
792,7 mg/kg	marine sediment	100
207,7	Soil	100

Source : 100 - Firmendaten

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### 8.2 Exposure controls

Respiratory protection	Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust). Note: Should no job-related limit values are indicated, the product, which a monitoring exposure limit is allocated, do not contains ingredients in relevant concentrations.
Hand protection	Protective gloves complying with EN 374. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
Unsuitable material :	woven fabric, Leather gloves
Suitable material :	Nitriles
Eye protection	Tightly fitting safety goggles
Skin and body protection	Wear suitable protective equipment. Long sleeved clothing
General protective and hygiene measures	Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feedingstuffs. Wash hands before breaks and at the end of workday. Use protective skin cream before handling the product. Avoid contact with the skin and the eyes.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	liquid
Form	paste
Colour	glimmer
Odour	characteristic
pH	not applicable
Melting point [°C] / Freezing point [°C]	not applicable
Boiling point [°C]	not applicable
Flash point [°C]	> 100 °C
Evaporation rate [kg/(s*m <sup>2</sup> )]	not determined
Vapour pressure [kPa]	not applicable
Vapour density	not determined
Density [g/cm <sup>3</sup> ]	1,14 - 1,18 g/cm <sup>3</sup>
Temperature :	20 °C
Partition coefficient n-octanol /water (log P O/W)	not determined
Autoignition temperature [°C]	not determined
Viscosity, dynamic [kg/(m*s)]	2.500 - 3.500 mPas*s
Temperature :	20 °C
Measuring method :	Haake-Viscotester
Explosive properties	Not relevant
Oxidising properties	Not relevant

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**9.2 Other information**

Ignition temperature [°C] not applicable

**SECTION 10: Stability and reactivity****10.4 Conditions to avoid**

Conditions to avoid Hazardous decomposition products may be produced when the recommended processing temperatures or times are exceeded.

**10.5 Incompatible materials**

Materials to avoid Oxidizing agents (strong)

**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Hazardous ingredients****Dodecanol ethoxyliert**

Oral toxicity [mg/kg]	Test criterion	Test species	Source
2001 mg/kg	LD50	rat	100

Source : 100 – Firmendaten

Dermal toxicity [mg/kg]	Test criterion	Test species	Source
2001 mg/kg	LD50	rat	100

Source : 100 – Firmendaten

Irritant effect on skin	No skin irritation
Test species	rabbit
Irritant effect on eyes	Risk of serious damage to eyes.
Test species	rabbit
Sensitization	No sensitization responses were observed.
Test species	guinea pig
Mutagenicity	negative
Measuring method	In vitro methods
Reproduction toxicity	251 mg/kg
Type	NOAEL (No observed adverse effect level)

**Fettsäuren, C14-18 und C16-18-Säuren Bariumsalze**

Oral toxicity [mg/kg]	Test criterion	Test species	Exposure duration	Measuring method	Remarks	Source
> 66 mg/kg	LC50	rat	1 h	OECD Test Guideline 401	Information given is based on data obtained from similar substances.	100
132 mg/kg	LD50	rat	1h	OECD Test Guideline 401		100

Source : 100 – Firmendaten

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Dermal toxicity [mg/kg]	Test criterion	Test species	Duration	Measuring method	Remarks	Source
> 2001 mg/kg	LC50	rat	4 h	OECD Test Guideline 402	Information given is based on data obtained from similar substances.	100

Source : 100 – Firmendaten

Inhalative toxicity [mg/l]	Test criterion	Test species	Exposure duration	Measuring method	Source
> 1,1	LC50	rat	4 h	OECD Test Guideline 403	100

Source : 100 – Firmendaten

LC50 Inhalation 4h for vapours [mg/l]	Test criterion	Test species	Exposure duration	Measuring method	Remarks	Source
	LC50	rat	1 h	OECD Test Guideline 403	Information given is based on data obtained from similar substances.	100

Source : 100 – Firmendaten

LC50 Inhalation 4h for dusts and sprays [mg/l]	Source
> 1,1 mg/l	100

Source : 100 – Firmendaten

Irritant effect on skin	No skin irritation
Measuring method	OECD Test Guideline 404
Test species	rabbit
Exposure duration	4 h
Irritant effect on eyes	No eye irritation
Measuring method	OECD Test Guideline 405
Test species	rabbit
Exposure duration	1 h
Irritant effect on the respiratory tract	None known.
Sensitization	No sensitization responses were observed.
Measuring method	Maximisation Test
Test species	guinea pig
Exposure type	dermal, inhale
Reference substance	Information given is based on data obtained from similar substances.
Exposure duration	72 h

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Mutagenicity	not mutagenic
Measuring method	In vitro methods
Method of administration	OECD 476
	not mutagenic
Measuring method	OECD 471
Test species	Mutagenicity (Salmonella typhimurium - reverse mutation assay)

Specific target organ toxicity (repeated exposure) [mg/kg]	Source
110 mg/kg	100

Source : 100 - Firmendaten

**Alkylarylphosphit**

Oral toxicity [mg/kg]	Test criterion	Test species	Remarks	Source
> 4000 mg/kg	LD50	rat	Value taken from the literature	100

Source : 100 - Firmendaten

Dermal toxicity [mg/kg]	Test criterion	Test species	Duration	Remarks	Source
> 5000	LD50	rabbit	24 h	Value taken from the literature	100

Source : 100 - Firmendaten

Inhalative toxicity [mg/l]	Test criterion	Test species	Note	Exposure duration	Source
> 8,4 mg/l	LD50	rabbit	Value taken from the literature	1 h	100

Source : 100 - Firmendaten

Irritant effect on skin	Mild skin irritation
Measuring method	Draize Test
Remarks	Value taken from the literature
Irritant effect on eyes	Mild eye irritation
Measuring method	Draize Test
Remarks	Value taken from the literature
Mutagenicity	negative
Measuring method	In vitro methods
Remarks	Value taken from the literature

**11.2 Additional information**

Other information (chapter 11.) No toxicology information is available.

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**SECTION 12: Ecological information****12.1 Toxicity****Hazardous ingredients****Dodecanol ethoxyliert**

Toxicity to fish [mg/l]	Test criterion	Test species	Exposure duration	Source
0,11 – 1 mg/l	LC50	Brachydanio rerio (zebra fish)	96 h	100

Source : 100 – Firmendaten

Toxicity to daphnia [mg/l]	Test criterion	Test species	Exposure duration	Source
0,11 – 1 mg/l	EC 50	Daphnia magna (Water flea)	48 h	100

Source : 100 – Firmendaten

## Ready degradability

**Fettsäuren, C14–18 und C16–18–Säuren Bariumsalze**

NOEC (daphnia) [mg/l]	Source
> 2,9 mg/l	100

Source : 100 – Firmendaten

NOEC (algae) [mg/l]	Measuring method	Remarks	Exposure duration	Source
> 61,1 mg/l	OECD Test Guideline 201	Information given is based on data obtained from similar substances.	72 h	100

Source : 100 – Firmendaten

## Bioaccumulation Does not bioaccumulate.

Toxicity to bacteria [mg/l]	Test criterion	Exposure duration	Reference substance	Source
> 1000 mg/l	EC50	3 h	Information given is based on data obtained from similar substances.	100

Source : 100 – Firmendaten

**Alkylarylphosphit**

Toxicity to fish [mg/l]	Source
> 16 mg/l	100

Source : 100 – Firmendaten

Toxicity to daphnia [mg/l]	Source
5 mg/l	100

Source : 100 – Firmendaten

Toxicity to algae [mg/l]	Source
1,6 mg/l	100



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Source : 100 – Firmendaten

Biodegradability	1,31 %
Duration	28 day(s)
Reference substance	Information given is based on data obtained from similar substances.
Evaluation	Not inherently biodegradable.
Bioaccumulation	Does not bioaccumulate.
Bioconcentration factor (BCF)	17

## 12.5 Results of PBT and vPvB assessment

Results of PBT characteristics determination      This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

## 12.6 Other adverse effects

Further information on ecology      We have no quantitative data concerning the ecological effects of this product.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Disposal considerations      According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. The following Waste Codes are only suggestions:

Waste Code      07 02 08\* other still bottoms and reaction residues

Uncleaned empty packaging      -

## SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG	Air transport ICAO/IATA
14.1 UN-No	Not applicable.	Not applicable.	Not applicable.
14.2 Description of the goods	Non dangerous good	Non dangerous good	Non dangerous good IATA
14.2 UN proper shipping name		Non dangerous good	Non dangerous good
14.3 Transport hazard class(es)	Not applicable.	Not applicable.	Not applicable.
14.4 Packaging group	Not applicable.	Not applicable.	Not applicable.
14.5 Environmental hazards	Not applicable.	Not applicable.	Not applicable.

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

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code      Not relevant

## SECTION 15: Regulatory information

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

Additional regulations      Additionally, observe any national regulations!

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## **SECTION 16: Other information**

Relevant H-phrases                      EUH208: Contains Alkylarylphosphit. May produce an allergic reaction.  
   H301: Toxic if swallowed.  
   H315: Causes skin irritation.  
   H317: May cause an allergic skin reaction.  
   H318: Causes serious eye damage.  
   H332: Harmful if inhaled.  
   H400: Very toxic to aquatic life.  
   H411: Toxic to aquatic life with long lasting effects.  
   H412: Harmful to aquatic life with long lasting effects.

Wording of the hazard classes            Eye Dam.: Serious eye damage  
   Aquatic Acute: Hazardous to the aquatic environment  
   Aquatic Chronic: Hazardous to the aquatic environment  
   Acute Tox.: Acute toxicity  
   Skin Irrit.: Skin irritation  
   Skin Sens.: Skin sensitization

Classification for mixtures and used  
evaluation method according to  
regulation (EC) 1272/2008 [CLP]

Classification	evaluation
Eye Dam. 1; H318	

Department issuing safety data  
sheet    Environmental Department

Further information                            Full text of R-phrases referred to under sections 2 and 3

Modifications of the previous version are denoted with an asterisk (\*).

This information is provided in accordance with the current status of our knowledge and experience. The Safety Data Sheet describes products with a view to relevant safety requirements. This information does not constitute a warranty of properties, features or qualities.