

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Rhepanol-Grundierung 1 e

Print date: 31.07.2015

Product code: RCSO-FDT-009

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

### 1.1. Product identifier

Rhepanol-Grundierung 1 e

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

#### Use of the substance/mixture

special primer

#### 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:	<a href="http://www.fdt.de">http://www.fdt.de</a>		
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  
Acute toxicity: Acute Tox. 4  
Skin corrosion/irritation: Skin Irrit. 2  
Serious eye damage/eye irritation: Eye Irrit. 2  
Reproductive toxicity: Repr. 2  
Specific target organ toxicity - single exposure: STOT SE 3  
Specific target organ toxicity - repeated exposure: STOT RE 2  
Hazardous to the aquatic environment: Aquatic Chronic 3  
Hazard Statements:  
Highly flammable liquid and vapour.  
Causes serious eye irritation.  
Causes skin irritation.  
Suspected of damaging the unborn child.  
May cause damage to organs through prolonged or repeated exposure.  
Harmful to aquatic life with long lasting effects.

### 2.2. Label elements

#### Hazardous components which must be listed on the label

4-methylpentan-2-one, isobutyl methyl ketone  
xylene  
toluene  
acetone; propan-2-one; propanone

Signal word: Danger

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Pictograms:



#### Hazard statements

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
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.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/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.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P501	Dispose of contents/container in accordance with national disposal regulations.

#### 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

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#### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
108-10-1	4-methylpentan-2-one, isobutyl methyl ketone			10-<20 %
	203-550-1	606-004-00-4		
	Flam. Liq. 2, Acute Tox. 4, Eye Irrit. 2, STOT SE 3; H225 H332 H319 H335 EUH066			
1330-20-7	xylene			10-<20 %
	215-535-7	601-022-00-9		
	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2; H226 H312 H332 H315			
108-88-3	toluene			5-<15 %
	203-625-9	601-021-00-3		
	Flam. Liq. 2, Repr. 2, Skin Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1; H225 H361d H315 H336 H373 H304			
100-41-4	ethylbenzene			2,5-<10 %
	202-849-4	601-023-00-4		
	Flam. Liq. 2, Acute Tox. 4, STOT RE 2, Asp. Tox. 1; H225 H332 H373 H304			
67-64-1	acetone; propan-2-one; propanone			2,5-<10 %
	200-662-2	606-001-00-8		
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066			
1314-13-2	zinc oxide			1,0-<1,5 %
	215-222-5	030-013-00-7		
	Aquatic Acute 1 (M-Factor = 1), Aquatic Chronic 1; H400 H410			
10584-98-2	2-ethylhexyl 4,4-dibutyl-10-ethyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate			<0,2 %
	234-186-1			
	Muta. 2, Repr. 1A, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT RE 1, Aquatic Acute 1, Aquatic Chronic 1; H341 H360 H302 H315 H319 H372 H400 H410			

Full text of H and EUH phrases: 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. Call a physician immediately.

##### 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.

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#### 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.

Following eye contact: Causes serious eye irritation.

Possible risk of harm to the unborn child.

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 (CO<sub>2</sub>). 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.

#### 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.

##### Advice on protection against fire and explosion

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

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#### 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)

special primer

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
108-10-1	4-Methylpentan-2-one	50	208		TWA (8 h)	WEL
		100	416		STEL (15 min)	WEL
67-64-1	Acetone	500	1210		TWA (8 h)	WEL
		1500	3620		STEL (15 min)	WEL
100-41-4	Ethylbenzene	100	441		TWA (8 h)	WEL
		125	552		STEL (15 min)	WEL
108-88-3	Toluene	50	191		TWA (8 h)	WEL
		100	384		STEL (15 min)	WEL
1330-20-7	Xylene: mixed isomers	50	220		TWA (8 h)	WEL
		100	441		STEL (15 min)	WEL

##### Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
108-10-1	4-methylpentan-2-one	4-methylpentan-2-one	20 µmol/L	urine	Post shift
1330-20-7	Xylene, o-, m-, p- or mixed isomers	methyl hippuric acid	650 mmol/mol	urine	Post shift

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#### DNEL/DMEL values

CAS No	Substance		
DNEL type	Exposure route	Effect	Value
108-10-1	4-methylpentan-2-one, isobutyl methyl ketone		
Consumer DNEL, long-term	oral		4,2 mg/kg bw/day
Consumer DNEL, long-term	dermal		4,2 mg/kg bw/day
Worker DNEL, long-term	dermal		11,8 mg/kg bw/day
Consumer DNEL, acute	inhalation		155,2 mg/m³
Consumer DNEL, long-term	inhalation		14,7 mg/m³
Worker DNEL, acute	inhalation		208 mg/m³
Worker DNEL, long-term	inhalation		83 mg/m³
108-88-3	toluene		
Consumer DNEL, long-term	oral		8,13 mg/kg bw/day
Consumer DNEL, long-term	dermal		226 mg/kg bw/day
Worker DNEL, long-term	dermal		384 mg/kg bw/day
Consumer DNEL, acute	inhalation		226 mg/m³
Consumer DNEL, long-term	inhalation		56,5 mg/m³
Worker DNEL, acute	inhalation		343 mg/m³
Worker DNEL, long-term	inhalation		192 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 DNEL, long-term	inhalation		200 mg/m³
Worker DNEL, acute	inhalation		2420 mg/m³
Worker DNEL, long-term	inhalation		1210 mg/m³
1314-13-2	zinc oxide		
Consumer DNEL, long-term	oral		0,83 mg/kg bw/day
Consumer DNEL, long-term	dermal		83,3 mg/kg bw/day
Worker DNEL, long-term	dermal		83,3 mg/kg bw/day
Consumer DNEL, long-term	inhalation		2,5 mg/m³
Worker DNEL, long-term	inhalation		5 mg/m³

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#### PNEC values

CAS No	Substance	
Environmental compartment		Value
108-10-1	4-methylpentan-2-one, isobutyl methyl ketone	
Freshwater		0,6 mg/l
Marine water		0,06 mg/l
Soil		1,3 mg/kg
Marine sediment		0,83 mg/kg
Freshwater sediment		8,27 mg/kg
Micro-organisms in sewage treatment plants (STP)		27,5 mg/l
108-88-3	toluene	
Freshwater		0,68 mg/l
Soil		2,89 mg/kg
Freshwater sediment		16,39 mg/kg
Micro-organisms in sewage treatment plants (STP)		13,61 mg/l
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 sediment		30,4 mg/kg
Micro-organisms in sewage treatment plants (STP)		100 mg/l
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		117,8 mg/kg
Micro-organisms in sewage treatment plants (STP)		0,05 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.

##### 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

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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:	black
Odour:	characteristic

**Test method**

pH-Value:	not determined
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**Changes in the physical state**

Melting point:	not determined
Initial boiling point and boiling range:	56 °C
Flash point:	-18 °C

**Flammability**

Gas:	not determined
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**Explosive properties**

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

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

**Auto-ignition temperature**

Gas:	not determined
Decomposition temperature:	not determined
Vapour pressure: (at 20 °C)	247 hPa
Density (at 20 °C):	1,15 g/cm <sup>3</sup> DIN 53217
Water solubility:	insoluble
Partition coefficient:	not determined
Viscosity / dynamic: (at 20 °C)	2200 mPa·s ISO 2555
Viscosity / kinematic:	not determined
Vapour density:	not determined
Solvent content:	not determined

**9.2. Other information**

No further information available.

**SECTION 10: Stability and reactivity**



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#### **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.

##### **ATEmix calculated**

ATE (inhalative vapour) 19,73 mg/l; ATE (inhalative aerosol) 3,002 mg/l

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CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
108-10-1	4-methylpentan-2-one, isobutyl methyl ketone				
	oral	LD50	2080 mg/kg	Rat	OECD 401
	dermal	LD50	>16000 mg/kg	Rabbit	
	inhalative (4 h) vapour	LC50	8,3-16,6 mg/l	Rat	OECD 403
	inhalative aerosol	ATE	1,5 mg/l		
1330-20-7	xylene				
	oral	LD50	4300 mg/kg	Rat	
	dermal	LD50	3200 mg/kg	Rabbit	
	inhalative (4 h) vapour	LC50	11 mg/l	Rat	
	inhalative aerosol	ATE	1,5 mg/l		
108-88-3	toluene				
	oral	LD50	>5000 mg/kg	Rat	
	dermal	LD50	>5000 mg/kg	Rabbit	
	inhalative (4 h) vapour	LC50	31 mg/l	Rat	
100-41-4	ethylbenzene				
	oral	LD50	3500 mg/kg	Rat	GESTIS
	dermal	LD50	15400 mg/kg	Rabbit	GESTIS
	inhalative (4 h) vapour	LC50	17,2 mg/l	Rat	
	inhalative aerosol	ATE	1,5 mg/l		
67-64-1	acetone; propan-2-one; propanone				
	oral	LD50	5800 mg/kg	Rat	OECD 401
	dermal	LD50	>15800 mg/kg	Rat	
	inhalative (4 h) vapour	LC50	76 mg/l	Rat	
1314-13-2	zinc oxide				
	oral	LD50	> 5000 mg/kg	Rat	
	inhalative (4 h) vapour	LC50	>5,7 mg/l	Rat	
10584-98-2	2-ethylhexyl 4,4-dibutyl-10-ethyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate				
	oral	ATE	500 mg/kg		

#### Irritation and corrosivity

Causes serious eye irritation.

Causes skin irritation.

#### Sensitising effects

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

#### STOT-single exposure

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

#### Severe effects after repeated or prolonged exposure

May cause damage to organs through prolonged or repeated exposure. (toluene), (ethylbenzene)

#### Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of damaging the unborn child. (toluene)

#### Aspiration hazard

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

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## SECTION 12: Ecological information

### 12.1. Toxicity

Harmful to aquatic life with long lasting effects.

CAS No	Chemical name				
	Aquatic toxicity	Method	Dose	[h]   [d]	Species
108-10-1	4-methylpentan-2-one, isobutyl methyl ketone				
	Acute fish toxicity	LC50	509 mg/l	96 h	Pimephales promelas
	Acute algae toxicity	ErC50	400 mg/l	96 h	Selenastrum capricornutum
	Acute crustacea toxicity	EC50	170 mg/l	48 h	Daphnia magna
	Acute bacteria toxicity	(275 mg/l)			Pseudomonas putida
1330-20-7	xylene				
	Acute fish toxicity	LC50	26,7 mg/l	96 h	Pimephales promelas (fathead minnow)
	Acute algae toxicity	ErC50	2,2 mg/l	72 h	
	Acute crustacea toxicity	EC50	1 mg/l	48 h	Daphnia magna (Big water flea)
108-88-3	toluene				
	Acute fish toxicity	LC50	24 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)
	Acute algae toxicity	ErC50	12 mg/l	72 h	Pseudokirchneriella subcapitata
	Acute crustacea toxicity	EC50	11,5 mg/l	48 h	Daphnia magna
	Acute bacteria toxicity	(29 mg/l)			Pseudomonas putida
100-41-4	ethylbenzene				
	Acute algae toxicity	ErC50	3,6 mg/l	96 h	GESTIS
67-64-1	acetone; propan-2-one; propanone				
	Acute fish toxicity	LC50	5540 mg/l	96 h	Oncorhynchus mykiss
	Acute crustacea toxicity	EC50	6100 mg/l	48 h	Daphnia magna
	Algae toxicity	NOEC	4740 mg/l	2 d	Selenastrum capricornutum
1314-13-2	zinc oxide				
	Acute fish toxicity	LC50	1,31 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)
	Acute algae toxicity	ErC50	0,21 mg/l	72 h	Pseudokirchneriella subcapitata
	Acute crustacea toxicity	EC50	2,2 mg/l	48 h	Daphnia magna
	Algae toxicity	NOEC	0,04 mg/l		Pseudokirchneriella subcapitata

### 12.2. Persistence and degradability

No data available.

### 12.3. Bioaccumulative potential

No data available.

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#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
108-10-1	4-methylpentan-2-one, isobutyl methyl ketone	1,31
108-88-3	toluene	2,73
100-41-4	ethylbenzene	3,15
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

##### 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

080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other dangerous substances  
Classified as hazardous waste.

##### Waste disposal number of 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 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 1263

**14.2. UN proper shipping name:** Paint

**14.3. Transport hazard class(es):** 3

**14.4. Packing group:** II

Hazard label: 3



Classification code: F1

Special Provisions: 163 640D 650

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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 1263  
**14.2. UN proper shipping name:** Paint  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
Hazard label: 3



Classification code: F1  
Special Provisions: 163 640D 650  
Limited quantity: 5 L  
Excepted quantity: E2

#### Marine transport (IMDG)

**14.1. UN number:** UN 1263  
**14.2. UN proper shipping name:** Paint  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
Hazard label: 3



Marine pollutant: Nein  
Special Provisions: 163  
Limited quantity: 5 L  
Excepted quantity: E2  
EmS: F-E, S-E

#### Air transport (ICAO)

**14.1. UN number:** UN 1263  
**14.2. UN proper shipping name:** Paint  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
Hazard label: 3



Special Provisions: A3 A72  
Limited quantity Passenger: 1 L  
Passenger LQ: Y341  
Excepted quantity: E2  
IATA-packing instructions - Passenger: 353

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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**

No special precautions known.

**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): 62,65%

**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): 2 - 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 - 10.09.2014

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

**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

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

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Rhepanol-Grundierung 1 e**

Print date: 31.07.2015

Product code: RCSO-FDT-009

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CLP: Classification, Labeling, Packaging  
IUCID: 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.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
H360	May damage fertility or the unborn child.
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.
H412	Harmful to aquatic life with long lasting effects.
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:

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