

Telefax: +49 (621) 8504200



# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

# **Rhepanol-A1 Farbe**

Revision date: 20.09.2016 Product code: RCSO-FDT-028R Page 1 of 12

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

#### 1.1. Product identifier

Rhepanol-A1 Farbe

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

#### Use of the substance/mixture

flame retardant

#### 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

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

<u>number:</u> Emergency Action: In the event of a medical enquiry involving this product,

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 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 skin irritation.

Suspected of damaging the unborn child. May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated exposure.

Harmful to aquatic life with long lasting effects.

#### 2.2. Label elements

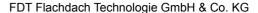
### Regulation (EC) No. 1272/2008

### Hazard components for labelling

Toluene

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified

Signal word: Danger





according to Regulation (EC) No 1907/2006

# Rhepanol-A1 Farbe

Revision date: 20.09.2016 Product code: RCSO-FDT-028R Page 2 of 12

## Pictograms:







#### **Hazard statements**

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.
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.

P262 Do not get in eyes, on skin, or on clothing.

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

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P331 Do NOT induce vomiting.

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.

P405 Store locked up.

P501 Do not discard content/container with household waste and forward for disposal according

to regional/national guidelines.

#### 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



according to Regulation (EC) No 1907/2006

# Rhepanol-A1 Farbe

Revision date: 20.09.2016 Product code: RCSO-FDT-028R Page 3 of 12

#### **Hazardous components**

CAS No	Chemical name				
	EC No	Index No	REACH No		
	Classification according to Regu				
108-88-3	Toluene			50-100 %	
	203-625-9		01-2119471310-51		
	Flam. Liq. 2, Repr. 2, Skin Irrit. 2 H373 H304				
7429-90-5	aluminium powder (stabilised)	5-<15 %			
	231-072-3	013-002-00-1			
	Water-react. 2, Flam. Sol. 1; H2				
64742-48-9	Naphtha (petroleum), hydrotreat	1-<5 %			
	265-150-3	649-327-00-6			
	Flam. Liq. 3, Acute Tox. 3, Asp. Tox. 1; H226 H331 H304 EUH066				
64742-95-6	Solvent naphtha (petroleum), lig	1-<5 %			
	265-199-0	649-356-00-4			
	Flam. Liq. 3, STOT SE 3, STOT H411 EUH066				

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

#### **Further Information**

There is the following note: The classification of CAS 64742-48-9 and CAS 64742-95-6 as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0.1 wt% benzene (EINECS No 200-753-7). If the substance is not classified as a carcinogen, so at least the safety (102) -260-262-301 + 310-331 (Table 3.1) or the S phrases (2) -23-24-62 (Table 3.2) apply. This note applies only to certain complex oil-derived substances in Part 3 of this regulation.

# **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. 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.

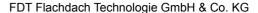
#### After ingestion

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

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

Following inhalation: May cause drowsiness or dizziness.

After skin contact: Causes skin irritation.





according to Regulation (EC) No 1907/2006

# Rhepanol-A1 Farbe

Revision date: 20.09.2016 Product code: RCSO-FDT-028R Page 4 of 12

Suspected of damaging 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 (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

Vapours may form explosive mixtures with air. Vapours are heavier than air and will spread at floor level.

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 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)

flame retardant



according to Regulation (EC) No 1907/2006

# Rhepanol-A1 Farbe

Revision date: 20.09.2016 Product code: RCSO-FDT-028R Page 5 of 12

# **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### **Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
7429-90-5	90-5 Aluminium metal, respirable dust		4		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL
108-88-3	Toluene	50	191		TWA (8 h)	WEL
		100	384		STEL (15 min)	WEL

#### **DNEL/DMEL values**

CAS No	Substance						
DNEL type		Exposure route	Effect	Value			
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			

#### **PNEC values**

CAS No	Substance				
Environmental compartment Value					
108-88-3	-88-3 Toluene				
Freshwater		0,68 mg/l			
Freshwater sediment		16,39 mg/kg			
Micro-organisms in sewage treatment plants (STP)		13,61 mg/l			
Soil		2,89 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**

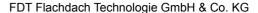
Protect skin by using skin protective cream. Wear suitable gloves.

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.

### Skin protection

Full cover clothing covering arms and legs.





according to Regulation (EC) No 1907/2006

# **Rhepanol-A1 Farbe**

Revision date: 20.09.2016 Product code: RCSO-FDT-028R Page 6 of 12

#### 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: silver grey
Odour: characteristic

Test method

pH-Value: not determined

Changes in the physical state

Melting point: not determined Initial boiling point and boiling range: 110  $^{\circ}$ C Flash point: 4  $^{\circ}$ C

**Flammability** 

Gas: not determined

**Explosive properties** 

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

Lower explosion limits:

Upper explosion limits:

1,3 vol. %
7,0 vol. %

Ignition temperature:

535 °C

**Auto-ignition temperature** 

Gas: not determined

Decomposition temperature: not determined

Oxidizing properties

not determined

Vapour pressure: 29 hPa

(at 20 °C)

Density (at 20 °C): 0,98 g/cm³ ISO 2811-1

Water solubility: insoluble

Partition coefficient: not determined

Viscosity / dynamic: 200 mPa·s ISO 2555

(at 20 °C)

Viscosity / kinematic: not determined
Vapour density: not determined
Solvent content: 74,30%

#### 9.2. Other information

No further information availible.

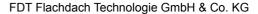
#### **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

No dangerous reactivity under regular conditions.

# 10.2. Chemical stability

The product is stable under regular conditions.





according to Regulation (EC) No 1907/2006

# Rhepanol-A1 Farbe

Revision date: 20.09.2016 Product code: RCSO-FDT-028R Page 7 of 12

### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4. Conditions to avoid

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

#### 10.5. Incompatible materials

Oxidizing agents, strong.

#### 10.6. Hazardous decomposition products

Thermal decomposition can lead to harmful gases and vapours.

# **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	
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		
64742-48-9	Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha					
	inhalative vapour	ATE	3 mg/l			
	inhalative aerosol	ATE	0,5 mg/l			
64742-95-6	Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified					
	oral	LD50	>6800 mg/kg	Rat		
	dermal	LD50	>3400 mg/kg	Rabbit		
	inhalative (4 h) vapour	LC50	10,2 mg/l	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

Suspected of damaging the unborn child. (Toluene)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

### STOT-single exposure

May cause drowsiness or dizziness. (Toluene)

# STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure. (Toluene)

### **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.



according to Regulation (EC) No 1907/2006

# Rhepanol-A1 Farbe

Revision date: 20.09.2016 Product code: RCSO-FDT-028R Page 8 of 12

CAS No	Chemical name					
	Aquatic toxicity	Dose		[h]   [d]	Species	Source
108-88-3	Toluene					
	Acute fish toxicity	LC50	24 mg/l		Oncorhynchus mykiss (Rainbow trout)	
	Acute algae toxicity	ErC50	12 mg/l		Pseudokirchneriella subcapitata	
	Acute crustacea toxicity	EC50	11,5 mg/l	48 h	Daphnia magna (Big water flea)	

### 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

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 hazardous 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

hazardous 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 126314.2. UN proper shipping name:Paint14.3. Transport hazard class(es):314.4. Packing group:II



according to Regulation (EC) No 1907/2006

# Rhepanol-A1 Farbe

Revision date: 20.09.2016 Product code: RCSO-FDT-028R Page 9 of 12

Hazard label: 3



Classification code: F1

Special Provisions: 163 367 640D 650

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 126314.2. UN proper shipping name:Paint14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Classification code: F1

Special Provisions: 163 367 640D 650

Limited quantity: 5 L
Excepted quantity: E2

Marine transport (IMDG)

14.1. UN number:UN 126314.2. UN proper shipping name:Paint14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Special Provisions: 163, 367
Limited quantity: 5 L
Excepted quantity: E2
EmS: F-E, S-E

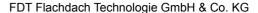
Air transport (ICAO-TI/IATA-DGR)

14.1. UN number:UN 126314.2. UN proper shipping name:Paint14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Special Provisions: A3 A72 A192

Limited quantity Passenger: 1 L





according to Regulation (EC) No 1907/2006

Rhepanol-A1 Farbe							
Revision date: 20.09.2016	Product code: RCSO-FDT-028R	Page 10 of 12					

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

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 28: Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha

Entry 29: Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified

Entry 40: aluminium powder (stabilised)

Entry 48: Toluene

2010/75/EU (VOC): 728,1 g/l 2004/42/EC (VOC): 74,30%

Information according to 2012/18/EU P5c FLAMMABLE LIQUIDS

(SEVESO III):

# 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

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

#### **SECTION 16: Other information**

#### Changes

Version 1,00 - Creation - 20.09.2016

# 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



according to Regulation (EC) No 1907/2006

# Rhepanol-A1 Farbe

Revision date: 20.09.2016 Product code: RCSO-FDT-028R Page 11 of 12

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

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 statements (number and full text)

H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour.

H228 Flammable solid.

H261 In contact with water releases flammable gases. H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation. H331 Toxic if inhaled.

H335 May cause respiratory irritation.
 H336 May cause drowsiness or dizziness.
 H361d Suspected of damaging the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

H411 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.

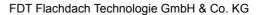
# **Further Information**

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:

REACHECK Solutions GmbH, Frohsinnstraße 28, 63739 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





according to Regulation (EC) No 1907/2006

# Rhepanol-A1 Farbe

Revision date: 20.09.2016 Product code: RCSO-FDT-028R Page 12 of 12

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