

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Anreißfarbe (ROT /BLAU) -LOSE WARE-

Product code: 0746

Revision date: 18.09.2017

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

##### 1.1. Product identifier

Anreißfarbe (ROT /BLAU) -LOSE WARE-

##### **Further trade names**

Art.-Nr.: 074611251 ANREISSFARBE BLAU 500 ML FIBROLIT-ARF NR.28023

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

##### **Use of the substance/mixture**

Industrial use of processing aids.

Process regulator or aid

Paint:

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

Company name:	EMIL OTTO	
	Flux- und Oberflächentechnik GmbH	
Street:	Eltviller Landstrasse 22	
Place:	D-65346 Eltville-Erbach	
Telephone:	+49 6123 7046-0	Telefax: +49 6123 7046-15
e-mail:	info@emilotto.de	
Contact person:	André Bremser	Telephone: +49 6123 7046-28
e-mail:	bremser@emilotto.de	
Internet:	www.emilotto.de	
Responsible Department:	Laborleitung	
	Betrieblich verantwortliche Person (WHG, REACH, Gefahrstoffe, Gefahrgut)	

##### 1.4. Emergency telephone number:

0049613119240 (Giftinfo Mainz)

#### SECTION 2: Hazards identification

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

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

Hazard categories:

Flammable liquid: Flam. Liq. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Specific target organ toxicity - single exposure: STOT SE 3

Hazard Statements:

Highly flammable liquid and vapour.

Causes serious eye irritation.

May cause drowsiness or dizziness.

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#### 2.2. Label elements

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

##### Hazard components for labelling

propan-2-ol; isopropyl alcohol; isopropanol  
butanone; ethyl methyl ketone

Signal word: Danger

##### Pictograms:



##### Hazard statements

H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.

##### Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ventilating/lighting equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
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.  
P312 Call a POISON CENTER/doctor if you feel unwell.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P235 Keep cool.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.  
P501 Dispose of waste according to applicable legislation. Consult the local waste disposal expert about waste disposal.

##### Additional advice on labelling

This preparation is hazardous in the sense of regulation (EC) No 1272/2008 [GHS].

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#### 2.3. Other hazards

See attached safety data sheets and/or usage instructions.

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Chemical characterization

Contains:

Solvents (Alcohol. , Ethyl methyl ketone.), resin. Colouring agent

##### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol			40-60 %
	200-661-7	603-117-00-0		
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336			
78-93-3	butanone; ethyl methyl ketone			20-40 %
	201-159-0	606-002-00-3		
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066			

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

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### After inhalation

Provide fresh air. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

##### After contact with skin

Wash with plenty of water. Change contaminated clothing.

##### After contact with eyes

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

##### After ingestion

Rinse mouth immediately and drink plenty of water.

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

Rinse mouth immediately and drink plenty of water.

#### **4.3. Indication of any immediate medical attention and special treatment needed**

No known symptoms to date.

### SECTION 5: Firefighting measures

#### **5.1. Extinguishing media**

##### **Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>). Foam. Extinguishing powder.

##### **Unsuitable extinguishing media**

D powder.

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

Combustible. Vapours may form explosive mixtures with air.

#### **5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.

#### **Additional information**

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

### SECTION 6: Accidental release measures

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

Remove all sources of ignition. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

#### **6.2. Environmental precautions**

Do not allow uncontrolled discharge of product into the environment. Explosion hazard.

#### **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**

Treat the recovered material as prescribed in the section on waste disposal.  
See protective measures under point 7 and 8.

### SECTION 7: Handling and storage

#### **7.1. Precautions for safe handling**

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#### Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

#### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours may form explosive mixtures with air.

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

##### Requirements for storage rooms and vessels

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from sources of ignition - No smoking.

##### Advice on storage compatibility

Do not store together with: Material, rich in oxygen, oxidizing.

#### 7.3. Specific end use(s)

Special finishes

Further information: refer to Technical Data Sheet.

### 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
78-93-3	Butan-2-one (methyl ethyl ketone)	200	600		TWA (8 h)	WEL
		300	899		STEL (15 min)	WEL
67-63-0	Propan-2-ol	400	999		TWA (8 h)	WEL
		500	1250		STEL (15 min)	WEL

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

CAS No	Substance	Parameter	Value	Test material	Sampling time
78-93-3	Butan-2-one	butan-2-one	70 µmol/L	urine	Post shift

#### Additional advice on limit values

Use appropriate respiratory protection.

#### 8.2. Exposure controls

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#### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

#### Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink.

#### Eye/face protection

Tightly sealed safety glasses.

#### Hand protection

Additional protection measures for the hands:

Hand protection: DIN EN 374

-CR (polychloroprenes, Chloroprene rubber).

Thickness of glove material: : 0,65mm

penetration time (maximum wearing period): : >120min.

-NBR (Nitrile rubber):.

Thickness of glove material: : 0,4mm

penetration time (maximum wearing period): : >480min.

Breakthrough times and swelling properties of the material must be taken into consideration.

Take recovery periods for skin regeneration.

In the case of wanting to use the gloves again, clean them before taking off and air them well.

Use gloves only once.

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.

Before using check leak tightness / impermeability.

#### Skin protection

For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes).

#### Respiratory protection

[In case of inadequate ventilation] wear respiratory protection. Use appropriate respiratory protection. Use only respiratory protection equipment with CE-symbol including four digit test number. The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, closed-circuit breathing apparatus must be used!

Filtering device (full mask or mouthpiece) with filter::A

#### Environmental exposure controls

No special measures are necessary.

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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	red / blue
Odour:	Solvents, Alcohol.

#### Test method

pH-Value (at 20 °C):	not applicable etc.:
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#### Changes in the physical state

Melting point:	not determined
Initial boiling point and boiling range:	approx. 80 °C
Sublimation point:	not determined
Softening point:	not determined
Pour point:	not determined
:	not determined
Flash point:	12 °C

#### Flammability

Solid:	not determined
Gas:	not determined

Lower explosion limits:	1,5 g/m <sup>3</sup>
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Upper explosion limits:	12 g/m <sup>3</sup>
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Ignition temperature:	approx. 420 °C
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#### Auto-ignition temperature

Solid:	not determined
Gas:	not determined

Decomposition temperature:	not determined
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Vapour pressure: (at 20 °C)	48 hPa
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Vapour pressure: (at 50 °C)	236 hPa
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Density:	approx. 0,8 g/cm <sup>3</sup>
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Bulk density:	not determined
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Water solubility:	The substance is not soluble in water.
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#### Solubility in other solvents

Alcohols, Ketone, miscible with most organic solvents

Partition coefficient:	not determined
Viscosity / dynamic:	not determined
Viscosity / kinematic:	not determined
Flow time:	not determined
Vapour density:	not determined
Evaporation rate:	not determined
Solvent content:	85%

#### 9.2. Other information

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No risks worthy of mention.

#### 10.2. Chemical stability

Stability and reactivity: Yes.

#### 10.3. Possibility of hazardous reactions

Violent reaction with: Oxidizing agents, strong.

#### 10.4. Conditions to avoid

Ignition hazard. Keep away from heat.

#### 10.5. Incompatible materials

Alkali metals., Oxidizing agents, strong.

#### 10.6. Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapours.

#### Further information

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Irritation and corrosivity

Irritating to eyes. Vapours may cause drowsiness and dizziness.

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#### STOT-repeated exposure

Has de-greasing effect on the skin. Frequently or prolonged contact with skin may cause dermal irritation.

#### Additional information on tests

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

### SECTION 12: Ecological information

#### 12.2. Persistence and degradability

The ecotoxicological properties of this mixture are determined by the ecotoxicological properties of the single components (see section 3).

#### 12.3. Bioaccumulative potential

On the basis of existing data about the elimination/degradation and bioaccumulation potential longer term damage to the environment is unlikely.

#### 12.4. Mobility in soil

No data available

#### 12.5. Results of PBT and vPvB assessment

This substance does not meet the criteria for classification as PBT or vPvB.

#### 12.6. Other adverse effects

No data available

#### Further information

The ecotoxicological properties of this mixture are determined by the ecotoxicological properties of the single components (see section 3).

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Advice on disposal

Dispose of waste according to applicable legislation.

##### 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 used product

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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**

150102 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); plastic packaging

**Contaminated packaging**

Water (with cleaning agent). Completely emptied packages can be recycled.

### SECTION 14: Transport information

**Land transport (ADR/RID)**

**14.1. UN number:** UN1993  
**14.2. UN proper shipping name:** FLAMMABLE LIQUIDS, N.O.S. (propan-2-ol; isopropyl alcohol; isopropanol, butanone; ethyl methyl ketone )  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
 Hazard label: 3



Classification code: F1  
 Special Provisions: 274 601 640C  
 Limited quantity: 1 L  
 Transport category: 2  
 Hazard No: 33  
 Tunnel restriction code: D/E

**Other applicable information (land transport)**

E2

**Inland waterways transport (ADN)**

**14.1. UN number:** UN1993  
**14.2. UN proper shipping name:** FLAMMABLE LIQUIDS, N.O.S. (propan-2-ol; isopropyl alcohol; isopropanol, butanone; ethyl methyl ketone )  
**14.3. Transport hazard class(es):** 3

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**14.4. Packing group:** II  
 Hazard label: 3



Classification code: F1  
 Special Provisions: 274 601 640C  
 Limited quantity: 1 L

**Other applicable information (inland waterways transport)**

E2

**Marine transport (IMDG)**

**14.1. UN number:** UN1993  
**14.2. UN proper shipping name:** FLAMMABLE LIQUID, N.O.S. (propan-2-ol; isopropyl alcohol; isopropanol butanone; ethyl methyl ketone)  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
 Hazard label: 3



Special Provisions: 274  
 Limited quantity: 1 L  
 EmS: F-E, S-E  
 Segregation group: IMDG-Code segregation group not applicable

**Other applicable information (marine transport)**

IMDG-Code segregation group not applicable  
 E2

**Air transport (ICAO-TI/IATA-DGR)**

**14.1. UN number:** UN1993  
**14.2. UN proper shipping name:** FLAMMABLE LIQUID, N.O.S. (propan-2-ol; isopropyl alcohol; isopropanolbutanone; ethyl methyl ketone)  
**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	
IATA-packing instructions - Passenger:		353
IATA-max. quantity - Passenger:		5 L
IATA-packing instructions - Cargo:		364
IATA-max. quantity - Cargo:		60 L

**Other applicable information (air transport)**

E2  
 Passenger-LQ: Y341

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

## 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): 85 %

**Additional information**

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe employment restrictions for women of child-bearing age.

Water contaminating class (D): 1 - slightly water contaminating

**Additional information**

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

**15.2. Chemical safety assessment**

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

## SECTION 16: Other information

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#### Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.

#### Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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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.)*