

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Anreissfluid\_Marking Fluid

Revision date: 03.06.2020

Product code: 0601-4

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

### 1.1. Product identifier

Anreissfluid\_Marking Fluid

#### Further trade names

Marking Fluid BLUE, RED and WHITE

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

#### Use of the substance/mixture

Special finishes.

Restricted to professional users.

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

Company name:	Artur Gloeckler GmbH	
Street:	Poststr.6	
Place:	D-63796 Kahl am Main	
Telephone:	+49 6188 9174 0	Telefax: +49 6188 9174 20
e-mail:	info@gloeckler.com	
Contact person:	Mr Bernhard Schmitt	Telephone: +49 6188 9174 11
e-mail:	sdb@gloeckler.com	
Internet:	www.gloeckler.com	

### 1.4. Emergency telephone number:

GIZ-Nord, Goettingen, Germany +49 551 19240, information in English available

## 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.

### 2.2. Label elements

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

#### Hazard components for labelling

isopropanol

butanone

Signal word: Danger

#### Pictograms:



#### Hazard statements

H225

Highly flammable liquid and vapour.

H319

Causes serious eye irritation.

H336

May cause drowsiness or dizziness.

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#### Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P261	Do not breathe gas/vapour/aerosol.
P264	Wash ... thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
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 or 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.
P370+P378	In case of fire: Use ... to extinguish.
P233	Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of waste according to applicable legislation.

#### Special labelling of certain mixtures

EUH066	Repeated exposure may cause skin dryness or cracking.
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### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
67-63-0	isopropanol			40-60 %
	200-661-7	603-117-00-0	01-2119457558-25	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336			
78-93-3	butanone			20-40 %
	201-159-0	606-002-00-3	01-2119457290-43	
	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

After contact with skin, wash immediately with plenty of water and soap. Change contaminated clothing.

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#### **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**

Seek medical attention if problems persist.

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

Causes serious eye irritation. Vapours may cause drowsiness and dizziness.

#### **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>). Foam. Extinguishing powder.

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

D -powder, High power water jet.

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

Combustible. Vapours may form explosive mixtures with air.

In case of fire may be liberated: Carbon monoxide

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

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

#### **Additional information**

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains. Fire class B (DIN EN2)

### SECTION 6: Accidental release measures

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

Remove all sources of ignition. Provide adequate ventilation.

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. Vapours may form explosive mixtures with air.

#### **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).

#### **6.4. Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

### SECTION 7: Handling and storage

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

##### **Advice on safe handling**

Avoid contact with eyes. Provide adequate ventilation as well as local exhaustion at critical locations.

##### **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**

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

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smoking.

#### Hints on joint storage

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

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

Special finishes

### 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

#### 8.2. Exposure controls

##### Appropriate engineering controls

Work in well-ventilated zones or use proper respiratory protection.

##### 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

Suitable eye protection: Goggles.

##### Hand protection

In case of prolonged or frequently repeated skin contact: Suitable material: NBR (Nitrile rubber). Thickness of glove material: 0,65 mm, penetration time (maximum wearing period): &gt; 120 min

On short hand contact: Hand protection: CR (polychloroprenes, Chloroprene rubber). Thickness of glove material: 0,65 mm. penetration time (maximum wearing period): &gt;10 min

Protect skin by using skin protective cream.

##### Skin protection

. Wear anti-static footwear and clothing

##### Respiratory protection

Respiratory protection necessary at: insufficient ventilation. Filtering device (full mask or mouthpiece) with filter: A

##### Environmental exposure controls

Do not empty into drains.

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## SECTION 9: Physical and chemical properties

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

Physical state:	liquid
Colour:	pigmented
Odour:	like: Alcohol
pH-Value:	not applicable

#### Changes in the physical state

Melting point:	not relevant
Initial boiling point and boiling range:	80 °C
Flash point:	12 °C

#### Flammability

Solid:	not determined
Gas:	not determined

#### Explosive properties

The product itself is not explosive but may form explosive vapour/air mixtures.

Lower explosion limits:	1,5 vol. %
Upper explosion limits:	12 vol. %
Ignition temperature:	420 °C
Decomposition temperature:	not determined

#### Oxidizing properties

Not oxidizing.

Vapour pressure: (at 20 °C)	48 hPa
Vapour pressure: (at 50 °C)	236 hPa
Density:	0,8 g/cm <sup>3</sup>
Water solubility:	insoluble

#### Solubility in other solvents

Soluble in: Ethanol, Acetone, Chloroform, Benzene.

Partition coefficient:	not determined
Viscosity / dynamic:	not determined
Vapour density:	not determined
Evaporation rate:	not determined
Solvent content:	approx. 85%

### 9.2. Other information

VOC/CH: 343 g/500 ml

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Highly flammable liquid and vapour (H225).

### 10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

### 10.3. Possibility of hazardous reactions

Keep away from heat. Ignition hazard.

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#### 10.4. Conditions to avoid

Keep away from heat. Ignition hazard.

#### 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 vapors.

### 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	Method
67-63-0	isopropanol				
	oral	LD50 mg/kg 5050	Rat	Source: GESTIS	
	dermal	LD50 mg/kg 12800	Rabbit	Source: GESTIS	
78-93-3	butanone				
	oral	LD50 mg/kg 2740	Rat	Source: GESTIS	
	dermal	LD50 mg/kg 6480	Rabbit	Source: GESTIS	

##### Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/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

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

##### STOT-single exposure

May cause drowsiness or dizziness. (isopropanol; butanone)

##### STOT-repeated exposure

Repeated exposure may cause skin dryness or cracking.

Has degreasing effect on the skin.

##### Aspiration hazard

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

### SECTION 12: Ecological information

#### 12.1. Toxicity

Experimental data for the product are not available.

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
67-63-0	isopropanol					
	Acute fish toxicity	LC50 mg/l	9640	96 h	Source: GESTIS	
	Acute crustacea toxicity	EC50 mg/l	1400	48 h	Source: GESTIS	
78-93-3	butanone					
	Acute fish toxicity	LC50 mg/l	3220	96 h	Source: GESTIS	
	Acute crustacea toxicity	EC50 mg/l	5090	48 h	Source: GESTIS	

#### 12.2. Persistence and degradability

No data available

#### 12.3. Bioaccumulative potential

No indication of bio-accumulation potential.

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
67-63-0	isopropanol	0,05

#### 12.4. Mobility in soil

No data available

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

The components in this formulation do 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

##### Disposal recommendations

Dispose of waste according to applicable legislation. The waste key according to the European Waste Catalogue (EWC number) refers to the real wastes origin and therefore is not product- but use-oriented. Control report for waste code/ waste marking according to EAKV:

##### List of Wastes Code - 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; hazardous waste

##### List of Wastes Code - 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.

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#### SECTION 14: Transport information

##### Land transport (ADR/RID)

**14.1. UN number:** UN 1993  
**14.2. UN proper shipping name:** FLAMMABLE LIQUID, N.O.S., isopropanol, butanone  
**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  
Excepted quantity: E2  
Transport category: 2  
Hazard No: 33  
Tunnel restriction code: D/E

##### Other applicable information (land transport)

: 274 330 601 640D  
: 2  
: D1E

##### Inland waterways transport (ADN)

**14.1. UN number:** UN 1993  
**14.2. UN proper shipping name:** FLAMMABLE LIQUID, N.O.S., isopropanol, butanone  
**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  
Excepted quantity: E2

##### Marine transport (IMDG)

**14.1. UN number:** UN 1993  
**14.2. UN proper shipping name:** FLAMMABLE LIQUID, N.O.S., isopropanol, butanone  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
Hazard label: 3



Special Provisions: 274  
Limited quantity: 1 L  
Excepted quantity: E2  
EmS: F-E, S-E



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

<b>14.1. UN number:</b>	UN 1993
<b>14.2. UN proper shipping name:</b>	FLAMMABLE LIQUID, N.O.S., isopropanol, butanone
<b>14.3. Transport hazard class(es):</b>	3
<b>14.4. Packing group:</b>	II
Hazard label:	3



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

### 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): approx. 85%

##### National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles 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.

Water hazard class (D): 1 - slightly hazardous to water

#### 15.2. Chemical safety assessment

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

### SECTION 16: Other information

#### Changes

This data sheet contains changes from the previous version in section(s): 2,9.

Revision date: 2009-01-26 completely revised

Revision date: 2011-05-26 Section 10, 14

Revision date: 2012-03-28 Section 11,12

Revision date: 2015-02-19 GHS

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

#### Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Flam. Liq. 2; H225	On basis of test data
Eye Irrit. 2; H319	Calculation method
STOT SE 3; H336	Calculation method



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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

Restricted to professional users.

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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.)*