

Anreiss-Spray_Marking Spray

Revision date: 03.06.2020

Product code: 0601-9

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

1.1. Product identifier

Anreiss-Spray_Marking Spray

Further trade names

Marking Spray BLUE, Marking Spray RED

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

Use of the substance/mixture

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:

Aerosol: Aerosol 1

Serious eye damage/eye irritation: Eye Irrit. 2

Specific target organ toxicity - single exposure: STOT SE 3

Hazard Statements:

Extremely flammable aerosol.

Pressurised container: May burst if heated.

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

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

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Precautionary statements

P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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.
P405	Store locked up.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501	Dispose of this material and its container to hazardous or special waste collection point.

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

Chemical characterization

Mixture of pigments, polyester resin, solvent and propellant.

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
67-63-0	isopropanol			20-40 %
	200-661-7	603-117-00-0	01-2119457558-25	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336			
74-98-6	propane			10-40 %
	200-827-9	601-003-00-5		
	Flam. Gas 1; H220			
106-97-8	butane			10-40 %
	203-448-7	601-004-00-0		
	Flam. Gas 1; H220			
78-93-3	butanone			10-20 %
	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). If victim is at risk of losing consciousness, position and transport on their side.

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After contact with skin

After contact with skin, wash immediately with: Water. Change contaminated clothing.
In case of frostbite, wash with plenty of water; do not remove 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

If swallowed, immediately drink: Water.

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

Causes serious eye irritation. May cause drowsiness or dizziness. Can cause frostbite.

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). Foam. Extinguishing powder. Use water spray jet to protect personnel and to cool endangered containers.

Unsuitable extinguishing media

High power water jet. D powder.

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 dioxide (CO₂). Carbon monoxide
Pressurised container: May burst if heated.

5.3. Advice for firefighters

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

Additional information

Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains. Remove heat to avoid pressure rise.
Fire class DIN EN 2 C: Burning gases.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Provide adequate ventilation. 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 to enter into surface water or drains. (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

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

Provide adequate ventilation as well as local exhaust at critical locations.

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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.

Further information on handling

Do not spray on naked flames or any incandescent material.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

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

Hints on joint storage

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

Further information on storage conditions

Protect against direct sunlight.

7.3. Specific end use(s)

Coating agents, solvent-based, aromatics-free, labeled

The product is a foam aerosol.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	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
106-97-8	Butane	600	1450		TWA (8 h)	WEL
		750	1810		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

Do not breathe gas/fumes/vapour/spray. The type of personal protection equipment has to be chosen based on the concentration and amount of the dangerous substance at the workplace.

8.2. Exposure controls

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): > 120 min

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

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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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Aerosol	
Colour:	pigmented	
Odour:	like: Isopropyl alcohol.	
pH-Value:		not applicable

Changes in the physical state

Melting point:	not relevant
Initial boiling point and boiling range:	approx. - 40 °C
Flash point:	approx. - 80 °C

Explosive properties

In use, may form flammable/explosive vapour-air mixture.

Lower explosion limits:	1,5 vol. %
Upper explosion limits:	12 vol. %
Ignition temperature:	420 °C

Auto-ignition temperature

Gas:	not determined
Decomposition temperature:	not determined

Oxidizing properties

Not oxidising.

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

Solubility in other solvents

mixable with most organic solvent cleaners

Partition coefficient:	not determined
Viscosity / dynamic:	not applicable
Vapour density:	not determined
Solvent content:	93%

9.2. Other information

VOC/CH: 279 g / 400ml

SECTION 10: Stability and reactivity

10.1. Reactivity

Extremely flammable aerosol.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

This material is combustible and can be ignited by heat, sparks, flames, or other sources of ignition (e.g. static electricity, pilot lights, or mechanical/electrical equipment). In use may form flammable/explosive vapour-air mixture.

10.4. Conditions to avoid

Keep away from heat. Ignition hazard. Pressurised container: May burst if heated.

10.5. Incompatible materials

Alkali metals, Oxidizing agents.

10.6. Hazardous decomposition products

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

Further information

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.

Aspiration hazard

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

SECTION 12: Ecological information

12.1. Toxicity

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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 data available

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
67-63-0	isopropanol	0,05
74-98-6	propane	2,36
106-97-8	butane	2,89

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

According to the present state of knowledge negative ecological effects are not expected.

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.

List of Wastes Code - residues/unused products

160508 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; discarded organic chemicals consisting of or containing hazardous substances; hazardous waste

List of Wastes Code - used product

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

160508 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; discarded organic chemicals consisting of or containing hazardous substances; hazardous waste

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Contaminated packaging

Dispose of this material and its container to hazardous or special waste collection point.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: UN 1950
14.2. UN proper shipping name: AEROSOLS
14.3. Transport hazard class(es): 2
 Hazard label: 2.1



Classification code: 5F
 Special Provisions: 190 327 344 625
 Limited quantity: 1L
 Transport category: 2
 Tunnel restriction code: D

Other applicable information (land transport)

Flammable aerosol., Hazardous Material: propane, butane, propan-2-ol; isopropyl alcohol; isopropanol

Inland waterways transport (ADN)

14.1. UN number: UN 1950
14.2. UN proper shipping name: AEROSOLS
14.3. Transport hazard class(es): 2
 Hazard label: 2.1



Classification code: 5F
 Special Provisions: 190 327 344 625
 Limited quantity: 1L

Other applicable information (inland waterways transport)

Flammable aerosol., Hazardous Material: propane, butane, propan-2-ol; isopropyl alcohol; isopropanol

Marine transport (IMDG)

14.1. UN number: UN 1950
14.2. UN proper shipping name: AEROSOLS
14.3. Transport hazard class(es): 2
14.4. Packing group: -
 Hazard label: 2, see SP63

Marine pollutant: no
 Special Provisions: 63, 190,277,327,344,959
 Limited quantity: see SP277
 EmS: F-D, S-U

Other applicable information (marine transport)

E0

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Air transport (ICAO-TI/IATA-DGR)

14.1. UN number:	UN1950
14.2. UN proper shipping name:	AEROSOLS, flammable
14.3. Transport hazard class(es):	2.1
Hazard label:	2.1
	
Special Provisions:	A145 A167 A803
Limited quantity Passenger:	30 kg G
IATA-packing instructions - Passenger:	203
IATA-max. quantity - Passenger:	75 kg
IATA-packing instructions - Cargo:	203
IATA-max. quantity - Cargo:	150 kg

Other applicable information (air transport)

E0
: Y203

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

Do not allow uncontrolled leakage of product into the environment.

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: butane
Entry 40: propane

2004/42/EC (VOC): 93%

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: 2009-06-30 completely revised

Revision date: 2011-05-26 Section 10,12,14

Revision date: 2012-03-29 Section 11, 12

Revision date: 2012-12-17 Section 5, 7, 9, 12, 13, 14

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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
Aerosol 1; H222-H229	On basis of test data
Eye Irrit. 2; H319	Bridging principle "Aerosols"
STOT SE 3; H336	Bridging principle "Aerosols"

Relevant H and EUH statements (number and full text)

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
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.

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