



Safety Data Sheet

in accordance with Regulation (EC) No 2020/878

Spray Adhesive "Aerofix 2"

Revision date: 14.01.2025

Product code: 159100

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

1.1. Product identifier

Spray Adhesive "Aerofix 2"

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

Use of the substance/mixture
adhesive

1.3. Details of the supplier of the safety data sheet

Company name: R&G Faserverbundwerkstoffe GmbH
Composite Technology
Street: Im Meißel 7 - 13
Place: D-71111 Waldenbuch
Post-office box: 1145
D-71107 Waldenbuch
Telephone: +49 (0)7157 5304-60 Telefax: +49 (0)7157 5304-70
E-mail: info@r-g.de
Contact person: Michael Groß
Internet: www.r-g.de
Responsible Department: Management

1.4. Emergency telephone number: Vergiftungs-Informationen-Zentrale Freiburg
Tel: +49 (0)761 19240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Aerosol 1; H222-H229
Skin Irrit. 2; H315
STOT SE 3; H336
Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

butane (containing $\geq 0,1$ % butadiene (203-450-8)),
cyclohexane,
isobutane 2-Methylpropane (containing $\geq 0,1$ % butadiene (203-450-8)),
Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha,
isopentane; 2-methylbutane,
pentane

Signal word: Danger

Pictograms:



Hazard statements

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H315 Causes skin irritation.

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H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P501 Dispose of contents/container to an appropriate recycling or disposal facility.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P302+P352 IF ON SKIN: Wash with plenty of water.
P391 Collect spillage.
P362 Take off contaminated clothing.
P312 Call a POISON CENTER/doctor if you feel unwell.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P273 Avoid release to the environment.
P271 Use only outdoors or in a well-ventilated area.
P264 Wash face, hands and all exposed skin thoroughly after use.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P251 Do not pierce or burn, even after use.
P211 Do not spray on an open flame or other ignition source.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Special labelling of certain mixtures

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

This mixture does not contain any substances assessed as vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII. The mixture does not contain substances included in the list drawn up in accordance with REACH Article 59(1) because they exhibit endocrine disrupting properties at a concentration of 0.1% or more by weight.

SECTION 3: Composition/information on ingredients**3.2. Mixtures**

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Relevant ingredients

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
110-82-7	cyclohexane			7 - 13 %
	203-806-2	601-017-00-1		
	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1; H225 H315 H336 H304 H400 H410			
115-10-6	dimethyl ether			7 - 13 %
	204-065-8	603-019-00-8		
	Flam. Gas 1; H220			
109-66-0	Pentan			5 - 10 %
	203-692-4			
	Flam. Sol. 1, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H228 H336 H304 H411 EUH066			
64742-49-0	Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha			10 %
	265-151-9	649-328-00-1		
	Flam. Liq. 1, Carc. 1B, Muta. 1B, Acute Tox. 1, Asp. Tox. 1, Aquatic Chronic 2; H224 H350 H340 H310 H304 H411			
106-97-8	butane (containing >= 0,1 % butadiene (203-450-8))			3 - 7 %
	203-448-7	601-004-01-8		
	Flam. Gas 1, Carc. 1A, Muta. 1B; H220 H350 H340			
75-28-5	isobutane (containing >= 0,1 % butadiene (203-450-8))			3 - 6 %
	200-857-2	601-004-01-8		
	Flam. Gas 1, Carc. 1A, Muta. 1B; H220 H350 H340			
78-78-4	Isopentane; 2-methylbutane			3 - 6 %
	201-142-8			
	Flam. Sol. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H228 H336 H304 H411 EUH066			

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity	
	Specific Conc. Limits, M-factors and ATE			
115-10-6	204-065-8	dimethyl ether	7 - 13 %	
	inhalation: LC50 = 164000 ppm (gases)			
64742-49-0	265-151-9	Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha	10 %	
	dermal: ATE = 5 mg/kg			

Further Information

Other components below reportable quantities: 34 - 40

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Remove all contaminated clothing immediately. In case of exposure or if affected: Get medical advice/attention. If you feel unwell, seek medical advice. Ensure that medical personnel are aware of the materials involved and take precautions. Show this safety data sheet to the attending physician. Dispose of all shoes and clothing that cannot be decontaminated.



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After inhalation

Following inhalation: Move victim to fresh air. Consult physician.

After contact with skin

Remove contaminated clothing and shoes immediately. Wash immediately with plenty of water. Wash contaminated clothing before reuse. Seek medical attention if pain or irritation persists after washing, or signs and symptoms of excessive exposure occur.

After contact with eyes

Rinse gently with water for a few minutes. Remove any contact lenses if possible. Continue rinsing. Call a doctor, giving the substance's exact name.

After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Remove affected person from the danger area and lay down. Consult physician. Do not introduce anything into the mouth of an unconscious person.

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

Aspiration may lead to pulmonary oedema and pneumonia. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Skin irritation. May cause redness and pain.

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

General support measures and symptomatic treatment are indicated. Keep affected person warm. Keep affected person under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Dry extinguishing powder. Foam. Carbon dioxide (CO₂)

Unsuitable extinguishing media

jet of water

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to the escape of irritating gases and vapors. When fire or if heated, a pressure increase will occur and the container may burst.

5.3. Advice for firefighters

Wear breathing apparatus without recirculating air and suitable protective clothing. Personal protection equipment: see section 8

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Avoid inhalation of mist/vapour. Only touch damaged containers or leaked material if suitable protective clothing is worn. Do not touch or walk through spilled material.

For emergency responders

Keep unnecessary personnel away. Avoid inhalation of mist/vapour. For personal protection measures, see section 8 of the SDS. Use recommended personal protection, see section 8 of the SDS.

6.3. Methods and material for containment and cleaning up

Other information

Take up with absorbent material (e.g. sand, kieselguhr, universal binder). Send in suitable containers for recovery or disposal. Absorb with sand, earth, or another absorbent substance.

6.4. Reference to other sections

Personal protective equipment see Section 8

Disposal: see section 13

SECTION 7: Handling and storage

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7.1. Precautions for safe handling**Advice on safe handling**

Provide adequate ventilation/vapour extraction at the workplace.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

The statutory requirements are complied with.

Further information on storage conditions

at room temperature <50 Store in a dry place.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
106-97-8	Butane	600	1450		TWA (8 h)	WEL
		750	1810		STEL (15 min)	WEL
110-82-7	Cyclohexane	100	350		TWA (8 h)	WEL
		300	1050		STEL (15 min)	WEL
115-10-6	Dimethyl ether	400	766		TWA (8 h)	WEL
		500	958		STEL (15 min)	WEL
78-78-4	Isopentane	600	1800		TWA (8 h)	WEL
109-66-0	Pentane	600	1800		TWA (8 h)	WEL

8.2. Exposure controls**Appropriate engineering controls**

Provide adequate ventilation/vapour extraction at the workplace.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Wear eye/face protection.

Hand protection

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

Skin protection

Avoid contact with skin. Wear protective gloves/protective clothing.

Respiratory protection

When thresholds are exceeded approved respiratory equipment must be worn.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	Liquid
Colour:	clear
Odour:	slightly sweetish
Density:	~0.7 g/cm ³

9.2. Other information**Information with regard to physical hazard classes**

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Explosive properties

A solvent contained in the end product can cause an explosion.

SECTION 10: Stability and reactivity**10.1. Reactivity**

The product is not reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

stable

10.3. Possibility of hazardous reactions

No dangerous reaction at use as agreed.

10.4. Conditions to avoid

Keep away from heat and ignition sources.

10.5. Incompatible materials

Strong oxidizing agents. Chlorine. Fluorine. Nitrate.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in GB CLP Regulation****ATEmix calculated**

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

Acute toxicity

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
115-10-6	dimethyl ether					
	inhalation (4 h) gas	LC50 ppm	164000	Rat	IUCLID	
64742-49-0	Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha					
	dermal	ATE	5 mg/kg			

Irritation and corrosivity

Causes skin irritation.

STOT-single exposure

May cause drowsiness or dizziness.

11.2. Information on other hazards**Endocrine disrupting properties**

This mixture does not contain substances with endocrine disrupting properties with respect to human health, as assessed according to the criteria of Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, in a concentration equal to or greater than 0.1% by weight.

SECTION 12: Ecological information**12.1. Toxicity**

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
115-10-6	dimethyl ether					
	Acute fish toxicity	LC50 mg/l	> 4100	96 h Poecilia reticulata (Guppy)	NEN6504	
	Acute crustacea toxicity	EC50 mg/l	> 4400	48 h Daphnia magna (Big water flea)	NEN6501	

12.2. Persistence and degradability

CAS No	Chemical name				
	Method	Value	d	Source	
	Evaluation				
115-10-6	dimethyl ether				
	OECD 301D/ EEC 92/69/V, C.4-E	5%	28		
	Not readily biodegradable (according to OECD criteria)				

12.3. Bioaccumulative potential**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
115-10-6	dimethyl ether	0,1

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

Remove according to the regulations. Dispose of in accordance with local regulations. Empty containers or inserts may retain some product residue. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging

Collect and recover or dispose of in tightly sealed containers in an authorised waste disposal facility. Prevent this material from entering the sewage or water supply system. Do not contaminate standing or flowing water with chemical or packaging material. Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 14: Transport information**Land transport (ADR/RID)**

14.1. UN number or ID number:	UN 1950
14.2. UN proper shipping name:	AEROSOLS, flammable
14.4. Packing group:	-
Hazard label:	2.1



Classification code:	5F
Excepted quantity:	E0

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Transport category: 2
Tunnel restriction code: B/D

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 1950
14.2. UN proper shipping name: AEROSOLS, flammable
14.3. Transport hazard class(es): 2
14.4. Packing group: -
Hazard label: 2.1

**Marine transport (IMDG)**

14.1. UN number or ID number: UN 1950
14.2. UN proper shipping name: AEROSOLS, flammable
14.3. Transport hazard class(es): 2.1
14.4. Packing group: -
Hazard label: 2.1



EmS: F-D, S-U

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 1950
14.2. UN proper shipping name: AEROSOLS, flammable
14.3. Transport hazard class(es): 2.1
14.4. Packing group: -
Hazard label: 2.1

**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 3, Entry 28, Entry 29, Entry 40, Entry 57, Entry 75

Directive 2004/42/EC on VOC in
paints and varnishes: 26 %**National regulatory information**

Water hazard class (D): 3 - highly hazardous to water

SECTION 16: Other information

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Abbreviations and acronyms

Flam. Gas: Flammable gases
Aerosol: Aerosols
Flam. Liq: Flammable liquids
Flam. Sol: Flammable solids
Acute Tox: Acute toxicity
Asp. Tox: Aspiration hazard
Skin Irrit: Skin irritation
Muta: Germ cell mutagenicity
Carc: Carcinogenicity
STOT SE: Specific target organ toxicity - single exposure
Aquatic Acute: Acute aquatic hazard
Aquatic Chronic: Chronic aquatic hazard

Relevant H and EUH statements (number and full text)

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H224	Extremely flammable liquid and vapour.
H225	Highly flammable liquid and vapour.
H228	Flammable solid.
H229	Pressurised container: May burst if heated.
H304	May be fatal if swallowed and enters airways.
H310	Fatal in contact with skin.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H340	May cause genetic defects.
H350	May cause cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

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