according to Regulation (EC) No. 1907/2006

## **Spray Adhesive "INFUTAC"**

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## 1. Identification of the substance/mixture and of the company/undertaking

#### Identification of the substance or mixture

Spray Adhesive "INFUTAC"

#### Company/undertaking identification

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: +49-7157-530460 Telefax: +49-7157-530470

e-mail: info@r-g.de
Internet: www.r-g.de
Responsible Department: Management

Emergency telephone: poison information centre

## 2. Hazards identification

#### Classification

Indications of danger: Extremely flammable, Irritant, Dangerous for the environment

R-phrases:

Extremely flammable. Irritating to eyes.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Repeated exposure may cause skin dryness or cracking.

Vapours may cause drowsiness and dizziness.

GHS: Hazard categories:

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Specific target organ toxicity - single exposure: STOT SE 3

Aspiration hazard: Asp. Tox. 1

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements: Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness.

May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects.

## 3. Composition/information on ingredients

Chemical characterization (Mixture)

according to Regulation (EC) No. 1907/2006

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#### Hazardous components

EC No.	CAS No.	Chemical name	Quantity
		Classification	
		GHS classification	
204-065-8	115-10-6	dimethyl ether	> 30 < 50 %
		F+ R12	
		Flam. Gas 1; H220	
201-185-2	79-20-9	methyl acetate	>10 < 30 %
		F, Xi R11-36-66-67	
		Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336	
205-563-8	142-82-5	heptane; n-heptane	> 10 < 30 %
		F, Xn, Xi, N R11-65-38-67-50-53	
		Flam. Liq. 2, Asp. Tox. 1, Skin Irrit. 2, STOT SE 3, Aquatic Acute 1, Aquatic Chronic 1; H225 H304 H315 H336 H400 H410	

Full text of R- and H-phrases: see section 16.

## 4. First aid measures

#### **General information**

In case of persisting adverse effects, consult a physiscian. Remove contaminated clothing and shoes immediately, and launder thoroughly befre reusing. If the patient is likely to become unconscious, place and transpor in stable sideways position.

#### After inhalation

Remove affected person from the immediate area. Ensure supply of fresh air. Irregular breathing / no breathing: artificial respiration. Summon a doctor immediately

#### After contact with skin

Wash off immediately with soap and water. Don't use solvents.

#### After contact with eyes

Separate eylids, wash the eyes thoroughly with water (15 min.)

#### After ingestion

Summon a doctor immediately. Do not induce vomiting. If swallowed give water to drink. Never give anything by mouth to an unconscious person.

## 5. Fire-fighting measures

## Suitable extinguishing media

dry chemicals Carbon dioxide (CO2).

#### Extinguishing media which must not be used for safety reasons

Full water jet

## Special exposure hazards arising from substance or mixture itself, combustion products, resulting gases

In the event of fire, the following can be released: carbon dioxide (CO2); carbon monoxide (CO)

## Special protective equipment for fire-fighters

Use self-contained breathing apparatus. Wear protective clothing.

#### **Additional information**

Cool endangered containers with water spray jet. Suppres gases/vapours/mists with water spray jet

## 6. Accidental release measures

#### **Personal precautions**

Refer to protective measures listed in section 7 and 8. Avoid contact with skin, eyes and clothing.

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Ensure adequate ventilation. Keep away sources of ignition. Do not inhale vapours.

#### **Environmental precautions**

Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

#### Methods for cleaning up/taking up

Take up with absorbent material (e.g. sand, kieselguhr, universal binder). Send in suitable containers for recovery or diposal.

## 7. Handling and storage

#### Handling

#### Advice on safe handling

Provide good ventilation of working area (local exhaust ventilation, if necessary). If workplace exposure limits are exceeded, respiratory protection approved for this particular job must be worn. Product inherent handling risks must be minimised taking the appropriate measures for protection and preventive actions. The working process should be designed to rile out the release of hazardous substances or skin contact as far it is possible by the state of the art. Provide good room ventilation even at ground level (vapours are heavier than air).

#### Advice on protection against fire and explosion

Vapours can form an explosive mixture wit air. Take precautionary measures against static charges. Keep away from sources of heat and ignition. Use explosion-proof equipment/fittings and non-sparking tools. The heavy vapours can overcome a considerable distance upto the source of ignition.

#### **Storage**

#### Requirements for storage rooms and vessels

Containers which are opened must be carefully resealed and kept upright to prevent leakage. Always keep n containers of same material as the original one.

## Advice on storage compatibility

Do not store together with: Acids; Oxidizing agents

#### Further information on storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place. Protect from heat and direct sunlight.

#### 8. Exposure controls/personal protection

## **Exposure limit values**

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

CAS No.	Chemical name	ml/m³	mg/m³	F/ml	Category	Origin
115-10-6	Dimethyl ether	400	766		TWA (8 h)	WEL
		500	958		STEL (15 min)	WEL
79-20-9	Methyl acetate	200	616		TWA (8 h)	WEL
		250	770		STEL (15 min)	WEL
142-82-5	n-Heptane	500	2085		TWA (8 h)	WEL
1		-	-		STEL (15 min)	WEL

#### **Exposure controls**

## Protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Avoid contact with eyes and skin. Remove soiled or soaked clothing immediately. Do not inale vapours. Wash hands before breaks and after work. Provide eye wash fountain in work area. Have emergency shower available.

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#### Respiratory protection

If workplace exposures limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

#### Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective glove should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avois permanent use of protective gloves. Appropriate Material: PVA

#### Eye protection

Safety glasses with side protection shield (EN 166)

#### Skin protection

Normal chemical work clothing

## 9. Physical and chemical properties

#### **General information**

Physical state:

Colour: green

Odour: strongly product-specific

## Important health, safety and environmental information

Test method

## Changes in the physical state

Flash point: 104 °C

Lower explosion limits: 18 vol. %

Upper explosion limits: 1,8 vol. %

Vapour pressure: 482,63 kPa hPa
(at 21 °C)

Density: 0,7-0,74 g/cm³

Water solubility: negligible

## 10. Stability and reactivity

## Conditions to avoid

Heat, naked flames and other ignition sources.

#### Materials to avoid

Acids; Oxidizing agents

## 11. Toxicological information

#### **Further information**

Inhalation of vapours may lead to headache, drowsiness and dizziness. Inhalation of vapours in higher concentration may lead to irritation of eyes, nose and respiratory tract. Repeated and prolonged skin contact may cause removal of natural fat from the skin and irritation of the skin. Eye contact with the product may lead to irritation.

## 12. Ecological information

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#### **Further information**

Ecological data are not available. Do not discharge product unmonitored into the environment.

## 13. Disposal considerations

#### Advice on disposal

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

#### Contaminated packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emtied packaging must be disposed of in the form of disposal specified by the regional deposer.

## 14. Transport information

#### Land transport (ADR/RID)

UN number: 3161
ADR/RID class: 2
Classification code: 2F

Warning plate

Hazard-no.: 23 Hazard label: 2.1



Limited quantity: 0
Tunnel restriction code: B/D

#### **Description of the goods**

LIQUEFIED GAS, FLAMMABLE, N.O.S. (dimethyl ether Heptanes)

## Other applicable information (land transport)

E0

## Marine transport

UN number: 3161
IMDG code: 2.1
Hazard label: 2.1



IMDG packing group:

EmS: F-D, S-U

Limited quantity: 0

## **Description of the goods**

LIQUEFIED GAS, FLAMMABLE, N.O.S. (dimethyl ether Heptanes)

#### Other applicable information (marine transport)

ΕO

## Air transport

UN/ID number: 3161

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ICAO/IATA-DGR: 2.1 Hazard label: 2.1



Limited quantity Passenger: Forbidden

IATA-packing instructions - Passenger: Forbidden IATA-max. quantity - Passenger: Forbidden IATA-packing instructions - Cargo: 200 IATA-max. quantity - Cargo: 150 kg

Description of the goods

LIQUEFIED GAS, FLAMMABLE, N.O.S. (dimethyl ether Heptanes)

Other applicable information (air transport)

: Forbidden

## 15. Regulatory information

## <u>Labelling</u>

Danger symbols: F+ - Extremely flammable; Xi - Irritant; N - Dangerous for the environment







F+ - Extremely flammable

Xi - Irritant N - Dangerous for the environment

#### R phrases

12	Extremely flammable
36	Irritating to eyes.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Repeated exposure may cause skin dryness or cracking. 66

Vapours may cause drowsiness and dizziness. 67

## S phrases

02 Keep out of the reach of children.

09 Keep container in a well-ventilated place.

Keep away from sources of ignition - No smoking. 16

23 Do not breathe Do not breathe gas/fumes/vapour/spray. . 51 Use only in well-ventilated areas.

61

Avoid release to the environment. Refer to special instructions / Safety data sheets.

Avoid contact with skin and eyes. 24/25

36/37 Wear suitable protective clothing and gloves.

## **GHS** labelling

Signal word: Danger

Pictograms: exclamation mark; health hazard; environment

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## **Hazard statements**

H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.
 H304 May be fatal if swallowed and enters airways.

H411 Toxic to aquatic life with long lasting effects.

#### **Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash ... thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P331 Do NOT induce vomiting.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P321 Specific treatment (see ... on this label).

P332+P313 If skin irritation occurs: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

breathing.

P312 Call a POISON CENTER or doctor/physician 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.

P391 Collect spillage.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container to ....

#### **National regulatory information**

## 16. Other information

## Full text of R-phrases referred to under sections 2 and 3

11	Highly flammable.
12	Extremely flammable.
36	Irritating to eyes.
38	Irritating to skin.

Very toxic to aquatic organisms.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

May cause long-term adverse effects in the aquatic environment.

65 Harmful: may cause lung damage if swallowed.

66 Repeated exposure may cause skin dryness or cracking.

67 Vapours may cause drowsiness and dizziness.

## Full text of H-Statements referred to under sections 2 and 3

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

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H315	Causes skin irritation.					
H319	Causes serious eye irritation.					
H336	May cause drowsiness or dizziness.					
H400	Very toxic to aquatic life.					
H410	H410 Very toxic to aquatic life with long lasting effects.					
H411	Toxic to aquatic life with long lasting effects.					

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