

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Semiperm Monofilm Release Spray

Print date: 04.03.2013

Product code: 165104-2012-GHS

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

Identification of the substance or mixture

Semiperm Monofilm Release Spray

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	
1.4. Emergency telephone number:	poison information centre	

2. Hazards identification

Classification

Indications of danger: Highly flammable, Harmful, Dangerous for the environment

R phrases:

Highly flammable.

Irritating to skin.

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

Harmful: may cause lung damage if swallowed.

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

Germ cell mutagenicity: Muta. 1B

Carcinogenicity: Carc. 1B

Hazard Statements:

Causes skin irritation.

Causes serious eye irritation.

May cause genetic defects.

May cause cancer.

3. Composition/information on ingredients

Chemical characterization (Mixture)

Mixture consisting of the following substances

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Hazardous components

EC No	CAS No	Chemical name	Quantity
		Classification	
		GHS classification	
265-151-9	64742-49-0	Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha	20 - 50 %
		Carc. Cat. 2, Muta. Cat. 2, Xn - Harmful R45-46-65	
		Carc. 1B, Muta. 1B, Asp. Tox. 1; H350 H340 H304	
215-535-7	1330-20-7	xylene	10 - 25 %
		Xn - Harmful, Xi - Irritant R10-20/21-38	
		Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2; H226 H332 H312 H315	
265-199-0	64742-95-6	Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified	10 - 20 %
		Carc. Cat. 2, Muta. Cat. 2, Xn - Harmful R45-46-65	
		Carc. 1B, Muta. 1B, Asp. Tox. 1; H350 H340 H304	
265-150-3	64742-48-9	Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha	10 - 20 %
		Carc. Cat. 2, Muta. Cat. 2, Xn - Harmful R45-46-65	
		Carc. 1B, Muta. 1B, Asp. Tox. 1; H350 H340 H304	
201-159-0	78-93-3	butanone; ethyl methyl ketone	5 - 10 %
		F - Highly flammable, Xi - Irritant R11-36-66-67	
		Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336	
200-662-2	67-64-1	acetone; propan-2-one; propanone	5 - 10 %
		F - Highly flammable, Xi - Irritant R11-36-66-67	
		Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336	

Full text of R and H phrases: see Section 16.

4. First aid measures

General information

Remove contaminated clothing immediately. If breathing is irregular or stopped give artificial respiration. Symptoms of poisoning can occur after several hours, therefore medical observation for at least 48 hours after the accident. Self-protection of the first aider. Remove from exposure, lie down. Irregular Atmund or artificial respiration. Remove contaminated clothing immediately.

After inhalation

Fresh air, if appropriate, provide artificial respiration. Consult a doctor when complaints persist. If unconscious, storage and transport in stable lateral position

After contact with skin

Immediately with water and soap and rinse thoroughly.

After contact with eyes

If the product comes into contact with the eyes, immediately rinse the open eyes with copious amounts of water for at least ten minutes. Afterwards consult an eye specialist.

After ingestion

Contact a doctor immediately. concerned to keep calm. No heir's lead. Oils and milk are contraindicated.

5. Fire-fighting measures

Suitable extinguishing media

Carbon dioxide (CO2). Extinguishing powder. Water fog.

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Special protective equipment for fire-fighters

Wear a protective full body suit. Wear breathing apparatus with own air supply.

6. Accidental release measures

Personal precautions

Ventilate adequately storage and work rooms. Personal protection equipment Keep unprotected persons at a safe distance.

6.2. Environmental precautions

Notify the responsible authority when the substance enters open water, the soil, or sewerage system. Do not discharge into drains, surface or groundwater.

Methods for cleaning up/taking up

Provide adequate ventilation/vapour extraction at the workplace. Take up with absorbent material (e.g. sand, kieselguhr, universal binder). Send in suitable containers for recovery or disposal.

Additional information

Information for safe handling, see Chapter 7 Information on personal protective equipment see Chapter 8 See Section 13 for disposal information

7. Handling and storage

Handling

Advice on safe handling

Protect against the effects of heat and direct sunlight. 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 rule 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). Handle open container with care.

Advice on protection against fire and explosion

Do not spray into flames or ignition sources. Take precautionary measures against static discharges. Warning: contents under pressure. Protect from direct exposure to sunlight and temperatures exceeding 50°C. Do not open containers with force. Do not incinerate, even when empty.

Storage

Requirements for storage rooms and vessels

Store in cool, dry location at 90 °F (32 °C) or below and away from open flames, heat, and sparks. Keep work areas free of hot metal surfaces and other sources of ignition. Keep container tightly closed when not in use to prevent drying out of material. Repack only into high-density polyethylene (HDPE). Containers used for repackaging should be thoroughly tested for long-term product compatibility before use. All new containers must exhibit product labels required for proper identification, safety, handling, and storage. Empty containers may contain product residue such as vapors - continue to observe proper handling and storage precautions.

Advice on storage compatibility

Do not store together with oxidizing and pyrophoric substances. The statutory requirements are complied with.

Further information on storage conditions

Store in a dry place. Keep receptacles tightly sealed. Do not keep the container sealed. Keep in well sealed receptacles at a cool, dry location. Protect against the effects of heat and direct sunlight.

8. Exposure controls/personal protection

Exposure limit values

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Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
67-64-1	Acetone	500	1210		TWA (8 h)	WEL
		1500	3620		STEL (15 min)	WEL
78-93-3	Butan-2-one (methyl ethyl ketone)	200	600		TWA (8 h)	WEL
		300	899		STEL (15 min)	WEL
1330-20-7	Xylene, o-, m-, p- or mixed isomers	50	220		TWA (8 h)	WEL
		100	441		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
1330-20-7	Xylene, o-, m-, p- or mixed isomers	methyl hippuric acid	650 mmol/mol	urine	Post shift

Additional advice on limit values

Based on references valid at the time of compilation.

8.2. Exposure controls

Protective and hygiene measures

When using do not eat, drink, smoke or take drugs. Keep away from foodstuffs, beverages and feed. Immediately take off soiled, impregnated clothing. Wash hands before breaks and after work. Gases / vapors / aerosols not breathe. Avoid contact with skin. @000000000503

Respiratory protection

short-term filter equipment Filter A XIn case of insufficient ventilation. In case of brief exposure or low pollution use respiratory filter device during intensive or longer exposure use self-contained breathing apparatus. Filter A / P 2

Hand protection

Protect skin by using skin protective cream. Wear protective gloves. The glove material has to be impermeable and resistant to the product / the substance / the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and degradation. Material of gloves: The selection of suitable gloves not only the material but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of glove materials can not advance and has therefore to be checked before use. Neoprene gloves. Gloves made of synthetic rubber. The exact Durchbuchzeit is from the protective glove manufacturer to manufacturer. NBR (Nitrile rubber). FKM (Fluoroelastomer).

Eye protection

Protective goggles (EN 166)

Skin protection

Wear protective clothing.

9. Physical and chemical properties

General information

Physical state: Aerosol
Colour: colourless
Odour: characteristic

Important health, safety and environmental information

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Test method

Changes in the physical state

Boiling point:	80 °C
Flash point:	< 0 °C
Lower explosion limits:	1,1 vol. %
Upper explosion limits:	10,9 vol. %
Density (at 20 °C):	0,78 g/cm ³
Water solubility:	NICHT LÖSLICH

Solvent content

95 %

9.2. Other information

Ignition temperature: 240 °C

10. Stability and reactivity

11. Toxicological information

Irritation and corrosivity

Irritates skin and mucous membranes.

Additional information on tests

The product shows the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version: Irritant: irritating

12. Ecological information

Further information

Toxic for Fish.

13. Disposal considerations

Advice on disposal

May not be disposed of together with domestic waste. Carry out a burning of hazardous waste according to official regulations.

Contaminated packaging

The product must be disposed of by an approved company in accordance with the local government regulations.

14. Transport information

Land transport (ADR/RID)

14.1. UN number:	UN1950
ADR/RID class:	2
Classification code:	5F
Warning plate	
Hazard label:	2.1



Limited quantity: 1000 ml

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Tunnel restriction code: D

Description of the goods
AEROSOLS

Other applicable information (land transport)
E0

Marine transport (IMDG)

14.1. UN number: UN1950
IMDG code: 2
Marine pollutant: ja
Hazard label: 2, see SP63

IMDG packing group: -
EmS: F-D, S-U
Limited quantity: 1000 ml

Description of the goods
AEROSOLS

Other applicable information (marine transport)
E0

Air transport (ICAO)

UN/ID number: UN1950
ICAO/IATA-DGR: 2.1
Hazard label: 2.1



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

Description of the goods
AEROSOLS, flammable

Other applicable information (air transport)
E0
: Y203

15. Regulatory information

Labelling

Danger symbols: Xn - Harmful; F - Highly flammable; N - Dangerous for the environment

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Xn - Harmful



F - Highly flammable



N - Dangerous for the environment

Hazardous components which must be listed on the label

Naphtha (petroleum), hydrotreated light, benzene content < 0.1%

Naphtha (petroleum), light aromatic, benzene content < 0.1%

Xylene.

R phrases

- 11 Highly flammable.
- 38 Irritating to skin.
- 51/53 Toxic to aquatic organisms, 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.

S phrases

- 09 Keep container in a well-ventilated place.
- 16 Keep away from sources of ignition - No smoking.
- 23 Do not breathe Do not breathe gas/fumes/vapour/spray. .
- 33 Take precautionary measures against static discharges.
- 51 Use only in well-ventilated areas.
- 36/37 Wear suitable protective clothing and gloves.

Additional advice on labelling

The product is classified and labelled under the EC Directives/hazardous substances laws (GefStoffV).

GHS labelling

Signal word:

Danger

Pictograms:

exclamation mark; health hazard



Hazard statements

- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H340 May cause genetic defects.
- H350 May cause cancer.

Precautionary statements

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P264 Wash ... thoroughly after handling.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- 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.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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P337+P313	If eye irritation persists: Get medical advice/attention.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P405	Store locked up.
P501	Dispose of contents/container to

National regulatory information

Water contaminating class (D): 2 - water contaminating

16. Other information

Full text of R phrases referred to under Sections 2 and 3

10	Flammable.
11	Highly flammable.
20/21	Harmful by inhalation and in contact with skin.
36	Irritating to eyes.
38	Irritating to skin.
45	May cause cancer.
46	May cause heritable genetic damage.
51/53	Toxic to aquatic organisms, 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

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H340	May cause genetic defects.
H350	May cause cancer.

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