Safety Data Sheet

according to UK REACH Regulation

Release spray Semiperm™ Monofilm

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

1.1. Product identifier

Release spray Semiperm™ Monofilm

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

Use of the substance/mixture

Release agent

Uses advised against

No further relevant information available.

1.3. Details of the supplier of the safety data sheet

Company name:	R&G Faserverbundwerkstoffe GmbH	
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	
Contact person:	Michael Groß	
e-mail:	info@r-g.de	
Internet:	www.r-g.de	
Responsible Department:	Management	

1.4. Emergency telephone number:

Vergiftungs-Informations-Zentrale Freiburg
Tel: +49 (0)761 19240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Hazard categories:
Aerosol: Aerosol 1
Aspiration hazard: Asp. Tox. 1
Skin corrosion/irritation: Skin Irrit. 2
Serious eye damage/eye irritation: Eye Irrit. 2
Specific target organ toxicity - single exposure: STOT SE 3
Specific target organ toxicity - repeated exposure: STOT RE 2
Hazardous to the aquatic environment: Aquatic Chronic 2
Hazard Statements:
Extremely flammable aerosol.
Pressurised container: May burst if heated.
May be fatal if swallowed and enters airways.
Causes skin irritation.
Causes serious eye irritation.
May cause respiratory irritation.
May cause damage to organs through prolonged or repeated exposure.
Toxic to aquatic life with long lasting effects.

2.2. Label elements

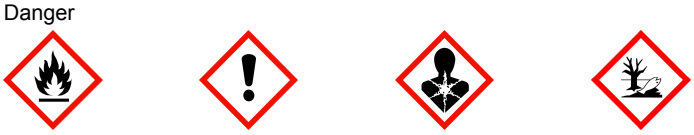
GB CLP Regulation

Hazard components for labelling

Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha
xylene
Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified
Naphtha (petroleum), hydrotreated heavy; Low boiling point ydrogen treated naphtha

Signal word: Danger

Pictograms:



Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.

H304	May be fatal if swallowed and enters airways.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

P501	Dispose of the contents / container in accordance with local / regional / national / international regulations.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

2.3. Other hazards

Results of PBT and vPvB assessment: not applicable

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
64742-49-0	Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha			10 - 20%
	265-151-9	649-328-00-1	01-2119475133-43	
	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411			
1330-20-7	xylene			5 - 10%
	215-535-7	601-022-00-9		
	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1; H226 H332 H312 H315 H319 H335 H373 H304			
78-93-3	butanone			1 - 5%
	201-159-0			
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336			
67-64-1	acetone			1 - 5%
	200-662-2			
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336			
64742-48-9	Naphtha (petroleum), hydrotreated heavy; Low boiling point ydrogen treated naphtha			1 - 5%
	265-150-3	649-327-00-6		
	Flam. Liq. 3, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H226 H336 H304 H411			
64742-95-6	Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified			1 - 5%
	265-199-0	649-356-00-4	01-2119455851-35	
	Flam. Liq. 3, Acute Tox. 4, STOT SE 3, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H226 H332 H335 H336 H304 H411			

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		
64742-49-0	265-151-9	Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha	10 - 20% %
	inhalation: LC50 = 20 mg/l (vapours); dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg		
1330-20-7	215-535-7	xylene	5 - 10% %
	inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = 2000 mg/kg; oral: LD50 = 4300 mg/kg		
64742-48-9	265-150-3	Naphtha (petroleum), hydrotreated heavy; Low boiling point ydrogen treated naphtha	1 - 5% %
	dermal: LD50 = > 3000 mg/kg; oral: LD50 = > 5000 mg/kg		
64742-95-6	265-199-0	Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified	1 - 5% %
	inhalation: LC50 = 10,2 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = > 3400 mg/kg; oral: LD50 = > 6800 mg/kg		

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Immediately remove any clothing contaminated with product. Symptoms of poisoning may develop several hours following exposure. Victim should be under medical observation for at least 48 hours after exposure.

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

Consult a doctor if skin irritation persists. Immediately with water and soap and rinse thoroughly. Immediately wash off with copious amounts of water.

After contact with eyes

Rinse opened eye for several minutes under running water. Consult a doctor when complaints persist.

After ingestion

Consult a doctor when complaints persist.

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

Headache, Dizziness, Dizziness, Unconsciousness, Nausea
No further relevant information available.

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

If swallowed or vomited, danger of penetration into the lungs.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol-resistant foam.

Unsuitable extinguishing media

Water, Full water jet

5.2. Special hazards arising from the substance or mixture

When heating up or in the fire case formation of poisonous gasses.

5.3. Advice for firefighters

Wear a protective full body suit. Mount respiratory protective device.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Provide adequate ventilation. Mount respiratory protective device. Wear protective equipment. Keep unprotected persons away.

6.2. Environmental precautions

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

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

Protect against the effects of heat and direct sunlight. Ensure good ventilation/extraction at the workplace.

Advice on protection against fire and explosion

Do not spray on naked flames or any incandescent material. Keep respiratory equipment at hand. Container is under pressure. Protect from sunlight and temperatures above 50°C (e.g. from incandescent lamps). Do not open by force or burn even after use.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Observe official regulations on storing packagings with pressurised containers.

Hints on joint storage

Do not store together with: Oxidizing agent.

Further information on storage conditions

Store in a dry place. Store in a cool place, heating leads to pressure increases and risk of bursting. Keep receptacles tightly sealed.

7.3. Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	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: 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
1330-20-7	Xylene, o-, m-, p- or mixed isomers	methyl hippuric acid (creatinine)	650 mmol/mol	urine	Post shift
78-93-3	Butan-2-one	butan-2-one	70 µmol/L	urine	Post shift

8.2. Exposure controls

Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Provide room air exhaust at ground level.

Eye/face protection

Tightly sealed safety glasses.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Wear suitable gloves.

Suitable material: NBR (Nitrile rubber), Thickness of glove material: >= 0,4 mm

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Wear suitable protective clothing.

Respiratory protection

short-term: Filtering device (full mask or mouthpiece) with filter: A/P2

prolonged exposure Self-contained respirator (breathing apparatus)

Environmental exposure controls

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Aerosol	
Colour:	colourless	
Odour:	characteristic	
pH-Value:		not determined
Changes in the physical state		
Melting point/freezing point:		not determined
Boiling point or initial boiling point and boiling range:		80 °C

Flash point:		<0 °C
Flammability		
Solid:		not applicable
Gas:		not applicable
Explosive properties		
Product is not explosive. However, formation of explosive air/vapour mixtures are possible.		
Lower explosion limits:		0,8 vol. %
Upper explosion limits:		10,9 vol. %
Auto-ignition temperature:		240 °C
Self-ignition temperature		
Solid:		not applicable
Gas:		not applicable
Decomposition temperature:		not determined
Oxidizing properties		
Not oxidising.		
Vapour pressure: (at 20 °C)		8.300 hPa
Density (at 20 °C):		0,78 g/cm³
Water solubility:		Immiscible
Solubility in other solvents		
not determined		
Partition coefficient n-octanol/water:		not determined
Viscosity / dynamic:		not determined
Viscosity / kinematic:		not determined
Relative vapour density:		not determined
Evaporation rate:		not determined
Solvent content:	93,7 % (Solvents:) 93,70 % (VOC EU)	

9.2. Other information

Odour threshold: not determined

SECTION 10: Stability and reactivity

10.1. Reactivity

No further relevant information available.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

No further relevant information available.

10.5. Incompatible materials

No further relevant information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

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

ATEmix calculated

ATE (inhalation aerosol) 3,333 mg/l

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
64742-49-0	Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha					
	oral	LD50 mg/kg	> 2000	Rat		
	dermal	LD50 mg/kg	> 2000	Rabbit		
	inhalation (4 h) vapour	LC50	20 mg/l	Rat		
1330-20-7	xylene					
	oral	LD50 mg/kg	4300	Rat	Manufacturer	
	dermal	LD50 mg/kg	2000	Rabbit	Manufacturer	
	inhalation vapour	ATE	11 mg/l			
	inhalation aerosol	ATE	1,5 mg/l			
64742-48-9	Naphtha (petroleum), hydrotreated heavy; Low boiling point ydrogen treated naphtha					
	oral	LD50 mg/kg	> 5000	Rat	Manufacturer	
	dermal	LD50 mg/kg	> 3000	Rabbit	Manufacturer	
64742-95-6	Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified					
	oral	LD50 mg/kg	> 6800	Rat	Manufacturer	
	dermal	LD50 mg/kg	> 3400	Rabbit	Manufacturer	
	inhalation (4 h) vapour	LC50	10,2 mg/l	Rat		
	inhalation aerosol	ATE	1,5 mg/l			

Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

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 respiratory irritation. (xylene)

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure. (xylene)

Aspiration hazard

May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

12.1. Toxicity

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

12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

The product has not been tested.

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

not applicable

12.6. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation. Collect the waste separately.

Contaminated packaging

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself.

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. (Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha, Ethyl methyl ketone)
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3

Classification code:	F1
Special Provisions:	274 601 640D
Limited quantity:	1 L
Excepted quantity:	E2
Transport category:	2
Hazard No:	33
Tunnel restriction code:	D/E

Inland waterways transport (ADN)

14.1. UN number:	UN 1993
14.2. UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. (Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha, Ethyl methyl ketone)
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3

Classification code:	F1
Special Provisions:	274 601 640D
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. (Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha, Ethyl methyl ketone)
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

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number:	UN 1993
14.2. UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. (Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha, Ethyl methyl ketone)

14.3. Transport hazard class(es): 3

14.4. Packing group: I

Hazard label: 3

Special Provisions: A3
Limited quantity Passenger: Forbidden
Passenger LQ: Forbidden
Excepted quantity: E3

IATA-packing instructions - Passenger: 351
IATA-max. quantity - Passenger: 1 L
IATA-packing instructions - Cargo: 361
IATA-max. quantity - Cargo: 30 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes

Danger releasing substance: Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified, Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha, Naphtha (petroleum), hydrotreated heavy; Low boiling point ydrogen treated naphtha

14.6. Special precautions for user

Warning! flammable liquids

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 3

2010/75/EU (VOC): 93,70 %
Information according to 2012/18/EU (SEVESO III): E2 Hazardous to the Aquatic Environment
Additional information: P5c

National regulatory information

Water hazard class (D): 2 - obviously hazardous to water

15.2. Chemical safety assessment

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

SECTION 16: Other information

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%

Relevant H and EUH statements (number and full text)

H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.

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.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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