

Safety Data Sheet

according to UK REACH Regulation

Release agent Semiperm™ Monofilm

Revision date: 08.04.2022

Product code: 165103

Page 1 of 9

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Release agent 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:

Flammable liquid: Flam. Liq. 2

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:

Highly flammable liquid and vapour.

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 hydrogen treated naphtha

Signal word: Danger**Pictograms:****Hazard statements**

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

Safety Data Sheet

according to UK REACH Regulation

Release agent Semiperm™ Monofilm

Revision date: 08.04.2022

Product code: 165103

Page 2 of 9

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.
 P405 Store locked up.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
 P273 Avoid release to the environment.
 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	20 - 50%
	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	10 - 25%
	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	5 - 10%
	201-159-0	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336	
67-64-1	acetone	5 - 10%
	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 hydrogen treated naphtha	10 - 20%
	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	10 - 20%
	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	20 - 50% %
		inhalation: LC50 = 20 mg/l (vapours); dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg	
1330-20-7	215-535-7	xylene	10 - 25% %
		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 hydrogen treated naphtha	10 - 20% %
		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	10 - 20% %
		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

Safety Data Sheet

according to UK REACH Regulation

Release agent Semiperm™ Monofilm

Revision date: 08.04.2022

Product code: 165103

Page 3 of 9

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, 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.

Additional information

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

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

Ensure good ventilation/extraction at the workplace. Avoid the formation of aerosol.

Advice on protection against fire and explosion

Vapours can form potentially explosive mixtures with air. Keep respiratory equipment at hand. Take precautionary measures against static discharges.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Provide a solvent-resistant and sealed floor. Store in a cool place.

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. Keep in well sealed receptacles at a cool, dry location.

7.3. Specific end use(s)

Safety Data Sheet

according to UK REACH Regulation

Release agent Semiperm™ Monofilm

Revision date: 08.04.2022

Product code: 165103

Page 4 of 9

No further relevant information available.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****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: 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: $\geq 0,4$ 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:	liquid	
Colour:	off-white	
Odour:	characteristic	
pH-Value:		not determined

Changes in the physical state

Melting point/freezing point:	not determined
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Safety Data Sheet

according to UK REACH Regulation

Release agent Semiperm™ Monofilm

Revision date: 08.04.2022

Product code: 165103

Page 5 of 9

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: 0,6 vol. %

Upper explosion limits: 7,7 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: 61 hPa
(at 20 °C)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: 95 % (Solvents:)

95 % (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

Safety Data Sheet

according to UK REACH Regulation

Release agent Semiperm™ Monofilm

Revision date: 08.04.2022

Product code: 165103

Page 6 of 9

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 > 2000 mg/kg	Rat		
	dermal	LD50 > 2000 mg/kg	Rabbit		
	inhalation (4 h) vapour	LC50 20 mg/l	Rat		
1330-20-7	xylene				
	oral	LD50 4300 mg/kg	Rat	Manufacturer	
	dermal	LD50 2000 mg/kg	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 hydrogen treated naphtha				
	oral	LD50 > 5000 mg/kg	Rat	Manufacturer	
	dermal	LD50 > 3000 mg/kg	Rabbit	Manufacturer	
64742-95-6	Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified				
	oral	LD50 > 6800 mg/kg	Rat	Manufacturer	
	dermal	LD50 > 3400 mg/kg	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

No further relevant information available.

12.3. Bioaccumulative potential

No further relevant information available.

12.4. Mobility in soil

No further relevant information available.

12.5. Results of PBT and vPvB assessment

not applicable

12.6. Other adverse effects

No information available.

Further information

Water hazard class 2 (Self-assessment): clearly hazardous to water.

Do not allow to enter ground water, water courses or sewage system not even in small quantities. Danger to drinking water even if small quantities leak into the ground. In waters also toxic to fish and plankton. Toxic to aquatic organisms.

Safety Data Sheet

according to UK REACH Regulation

Release agent Semiperm™ Monofilm

Revision date: 08.04.2022

Product code: 165103

Page 7 of 9


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

Must be given special treatment in compliance with official regulations. Must not be disposed of together with household waste. Do not allow to enter drains..

Contaminated packaging

Contaminated packing must be completely emptied and can be re-used following appropriate cleaning. Noncleanable packaging must be disposed of like the substance.


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. (Dampfdruck bei 50°C höchstens 110 kPa) (Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha, Xylene) ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3
	
Classification code:	F1
Limited quantity:	1 L
Excepted quantity:	E2
Transport category:	2
Tunnel restriction code:	D/E


Other applicable information (land transport)

Special marking: Symbol (fish and tree)

Inland waterways transport (ADN)

14.1. UN number:	UN 1993
14.2. UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. (Dampfdruck bei 50°C höchstens 110 kPa) (Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha, Xylene) ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3
	
Classification code:	F1
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, < 0,1 % Benzene, Xylol) MARINE POLLUTANT
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3
	
Marine pollutant:	ja
Special Provisions:	274
Limited quantity:	1 L

Safety Data Sheet

according to UK REACH Regulation

Release agent Semiperm™ Monofilm

Revision date: 08.04.2022

Product code: 165103

Page 8 of 9

Excepted quantity: E2
 EmS: F-E, S-E

Other applicable information (marine transport)

Maximum net quantity per inner packaging: 30 ml
 Maximum net quantity per outer packaging: 500 ml

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, < 0,1 % Benzene, Xylol)
14.3. Transport hazard class(es): 3
14.4. Packing group: II
 Hazard label: 3

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: Yes



Danger releasing substance: Naphtha (petroleum), hydrotreated light, benzene content < 0.1%

14.6. Special precautions for user

Warning: Flammable liquid substances

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, Entry 40

2010/75/EU (VOC): 95 %
 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)

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.

Safety Data Sheet

according to UK REACH Regulation

Release agent Semiperm™ Monofilm

Revision date: 08.04.2022

Product code: 165103

Page 9 of 9

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.)