

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Polyester resin Synolitel U 569

Revision date: 21.11.2019

Product code: 140105

Page 1 of 8

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

Polyester resin Synolitel U 569

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

laminating resin systems

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	
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****Regulation (EC) No. 1272/2008**

Hazard categories:

Flammable liquid: Flam. Liq. 3

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Reproductive toxicity: Repr. 2

Specific target organ toxicity - single exposure: STOT SE 3

Specific target organ toxicity - repeated exposure: STOT RE 1

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Flammable liquid and vapour.

Causes skin irritation.

Causes serious eye irritation.

Suspected of damaging the unborn child.

May cause respiratory irritation.

Causes damage to organs through prolonged or repeated exposure.

Harmful to aquatic life with long lasting effects.

2.2. Label elements**Regulation (EC) No. 1272/2008****Hazard components for labelling**

styrene

Signal word: Danger**Pictograms:**

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Polyester resin Synolitel U 569

Revision date: 21.11.2019

Product code: 140105

Page 2 of 8

Hazard statements

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H361d	Suspected of damaging the unborn child.
H335	May cause respiratory irritation.
H372	Causes damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
100-42-5	styrene			>= 30 < 50 %
	202-851-5	601-026-00-0		
	Flam. Liq. 3, Repr. 2, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT RE 1; H226 H361d H332 H315 H319 H372			

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

First aider: Pay attention to self-protection! Remove contaminated, saturated clothing immediately.

After inhalation

Remove person to fresh air and keep comfortable for breathing. If breathing is irregular or stopped, administer artificial respiration. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator. Call a doctor. If unconscious place in recovery position and seek medical advice.

After contact with skin

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. And wash it before reuse.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion

Rinse mouth thoroughly with water. Remove person to fresh air and keep comfortable for breathing. Do NOT induce vomiting. Never give anything by mouth to an unconscious person or a person with cramps. If unconscious place in recovery position and seek medical advice. Call a physician in any case!

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Polyester resin Synolitel U 569

Revision date: 21.11.2019

Product code: 140105

Page 3 of 8

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

Headache, Dizziness

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂).
Foam. / alcohol resistant foam
Extinguishing powder

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Gases (except aerosol dispensers and lighters)
Carbon monoxide Nitrogen oxides (NO_x). Fire gives rise to dense black smoke.

5.3. Advice for firefighters

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Additional information

Wear protective gloves/protective clothing. Self-contained respirator (breathing apparatus) (DIN EN 133)
complete head, face and neck protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Product is not explosive. However, formation of explosive air/vapour mixtures are possible. Wearing a personal protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe dust/fume/gas/mist/vapours/spray. Provide adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Stop leak if safe to do so. Move undamaged containers from immediate hazard area if it can be done safely. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Use appropriate container to avoid environmental contamination. Use non-sparking tools. Delivery to an approved waste disposal company.

6.4. Reference to other sections

SECTION 1: Identification of the substance/mixture and of the company/undertaking
SECTION 8: Exposure controls/personal protection
SECTION 13: Disposal considerations

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Wear suitable protective clothing. (SECTION 8: Exposure controls/personal protection) When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Used working clothes should not be worn outside the work area. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin, eyes and clothes. Ensure adequate ventilation of the storage area. In case of insufficient ventilation, wear suitable respiratory equipment. Keep only in the original container in a cool, well-ventilated place. Store in a dry place. Store in a closed container. Keep away from heat, hot surfaces, sparks, open flames and other ignition

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Polyester resin Synolitel U 569

Revision date: 21.11.2019

Product code: 140105

Page 4 of 8

sources. No smoking. Use explosion-proof [electrical/ventilating/lighting/...] equipment. Use non-sparking tools. Take precautionary measures against static discharges.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep only in the original container at temperature not exceeding 25 °C. Protect against: Keep away from heat. UV-radiation/sunlight Keep only in the original container in a cool, well-ventilated place. Store in a dry place. Keep away from food, drink and animal feedingstuffs. Store in a closed container. Keep away from sources of ignition - No smoking. Store in a closed container. Use appropriate container to avoid environmental contamination.

7.3. Specific end use(s)

No data 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
100-42-5	Styrene	100	430		TWA (8 h)	WEL
		250	1080		STEL (15 min)	WEL

8.2. Exposure controls

Appropriate engineering controls

This product is not to be used under conditions of poor ventilation. Exposure controls. The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used. Use explosion-proof ventilating equipment.

Protective and hygiene measures

Wash hands and face before breaks and after work and take a shower if necessary. Take off immediately all contaminated clothing and wash it before reuse.
In the immediate working surroundings there must be:

Eye/face protection

Wear eye/face protection.

Hand protection

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.

Breakthrough time (maximum wearing time): >8 h, (0.7 mm) FKM (fluoro rubber)

Breakthrough time (maximum wearing time): <1 h, (0.2 mm) CR (polychloroprene, chloroprene rubber), NBR (Nitrile rubber)

Skin protection

Chemical protection clothing

Respiratory protection

Self-contained respirator (breathing apparatus) (DIN EN 133)

Environmental exposure controls

To follow: Environmental precautions

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid
Colour: blue

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Polyester resin Synolitel U 569

Revision date: 21.11.2019

Product code: 140105

Page 5 of 8

Odour: of styrene

Test method

pH-Value: No data available

Changes in the physical state

Melting point: No data available

Softening point: No data available

Flash point: 34 °C ISO 1523

Flammability

Solid: No data available

Gas: No data available

Lower explosion limits: No data available

Upper explosion limits: No data available

Auto-ignition temperature

Solid: No data available

Gas: No data available

Decomposition temperature: No data available

Oxidizing properties

No data available

Vapour pressure: No data available

Vapour pressure: No data available

Density (at 20 °C): 1,2 g/cm³

Bulk density: No data available

Water solubility: The study does not need to be conducted because the substance is known to be insoluble in water.

Solubility in other solvents

No data available

Partition coefficient: No data available

Flow time: > 61 6 DIN EN ISO 2431

Vapour density: No data available

Evaporation rate: No data available

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

Keep away from sources of ignition - No smoking.

10.5. Incompatible materials

reaction with peroxides and other radical formers

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Polyester resin Synolitel U 569

Revision date: 21.11.2019

Product code: 140105

Page 6 of 8

10.6. Hazardous decomposition products

No data available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

ATEmix calculated

ATE (inhalation aerosol) 3,000 mg/l

Acute toxicity

CAS No	Chemical name					
	Exposure route	Dose	Species	Source	Method	
100-42-5	styrene					
	oral	LD50 mg/kg	2650	Rat	GESTIS	
	inhalation (4 h) vapour	LC50	12 mg/l	Rat	GESTIS	
	inhalation aerosol	ATE	1,5 mg/l			

Irritation and corrosivity

Irritant

SECTION 12: Ecological information

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
100-42-5	styrene	3,05

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available

12.6. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Consult the appropriate local waste disposal expert about waste disposal. Dispose of waste according to applicable legislation. Non-contaminated packages must be recycled or disposed of. In use may form flammable/explosive vapour-air mixture. Do not subject to grinding. Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Contaminated packaging

Contaminated packing must be completely emptied and can be re-used following appropriate cleaning. Non-contaminated packages must be recycled or disposed of. Do not empty into drains; dispose of this material and its container in a safe way. In use may form flammable/explosive vapour-air mixture. Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Revision date: 21.11.2019

Polyester resin Synolitel U 569

Product code: 140105

Page 7 of 8

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number:	UN 1866
14.2. UN proper shipping name:	HARZLÖSUNG, entzündbar
14.3. Transport hazard class(es):	3
14.4. Packing group:	III
Hazard label:	3



Classification code:	F1
Special Provisions:	640E
Limited quantity:	5 L
Transport category:	3
Hazard No:	30
Tunnel restriction code:	(D/E)

Other applicable information (land transport)

Transport in containers with max. 450 litres contents are not subject to the regulations of ADR/RID

Marine transport (IMDG)

14.1. UN number:	UN 1866
14.2. UN proper shipping name:	RESIN SOLUTION, flammable
14.3. Transport hazard class(es):	3
14.4. Packing group:	III
Marine pollutant:	NO
Special Provisions:	223, 955
Limited quantity:	5 L
EmS:	F-E, S-E

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number:	UN 1866
14.2. UN proper shipping name:	RESIN SOLUTION, flammable
14.3. Transport hazard class(es):	3
14.4. Packing group:	III
IATA-packing instructions - Passenger:	Y344
IATA-max. quantity - Passenger:	10 L
IATA-packing instructions - Cargo:	366
IATA-max. quantity - Cargo:	220 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

No data available

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulatory information

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Polyester resin Synolitel U 569

Revision date: 21.11.2019

Product code: 140105

Page 8 of 8

Water contaminating class (D): 3 - highly water contaminating

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

SECTION 16: Other information**Relevant H and EUH statements (number and full text)**

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

Further Information

Avoid contact with the eyes and skin.

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