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

1.1 Product identifier

Trade name/designation

BG09-S000-0AI SolvSeal PafukiSuper
UFI: RS9M-Y0DW-Y006-1G4W

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

paint and/or paint-related material

Relevant identified uses

Reserved for industrial and professional use.

Uses advised against

Do not use for injecting or spraying.

1.3 Details of the supplier of the safety data sheet

Supplier

Berger-Seidle GmbH
Maybachstr. 2
67269 Grünstadt
Germany

Telephone: +49 6359 8005-0
E-mail: info@berger-seidle.de
Website: www.berger-seidle.de

Department responsible for information

E-mail (competent person) Sicherheitsdaten@berger-seidle.de

1.4 Emergency telephone number

Emergency telephone number: +1 872 5888271 or +11 49 700 24112112
24 hr. emergency phone number

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

according to US OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flam. Liq. 2	H225 Highly flammable liquid and vapour.
Carc. 1A	H350 May cause cancer.
STOT SE 3 Narcotic effects	H336 May cause drowsiness or dizziness.

2.2 Label elements

Labeling according to US OSHA Hazard Communication Standard (29 CFR 1910.1200)

Hazard pictograms

GHS02 GHS07 GHS08

Signal word

Danger

Hazard statements

H225	Highly flammable liquid and vapour.
H350	May cause cancer.
H336	May cause drowsiness or dizziness.

Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P201	Obtain special instructions before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.

P261	Avoid breathing vapours.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves and eye protection/face protection.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P312	Call a POISON CENTER if you feel unwell.
P370 + P378	In case of fire: Use extinguishing powder or sand to extinguish.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to industrial incineration plant.

Hazard components for labelling

* isopropanol; isopropyl alcohol; propan-2-ol
* ethanol; ethyl alcohol

Other labelling

Restricted to professional users.

2.3 Hazards not otherwise classified (HNOC)

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

SECTION 3: Composition/information on ingredients.

3.2 Mixtures

Description

Stark lösemittelhaltige Grundsiegel undHolzkitte, entaromatisiert und niedrigsi

Hazardous ingredients

	CAS No. EC No. Index No.	Substance name REACH No.	weight-%
*	64-17-5 200-578-6 603-002-00-5	**ethanol; ethyl alcohol** Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / Carc. 1A H350	50,0 < 70,0
*	67-63-0 200-661-7 603-117-00-0	**isopropanol; isopropyl alcohol; propan-2-ol** Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336	20,0 < 25,0

Remark

Full text of H-phrases: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

Following inhalation

In case of irregular breathing or respiratory arrest provide artificial respiration.Remove casualty to fresh air and keep warm and at rest.

Following skin contact

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

Following ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

Self-protection of the first aider

First aider: Pay attention to self-protection!

4.2 Most important symptoms and effects, both acute and delayed

Symptoms

In all cases of doubt, or when symptoms persist, seek medical advice.

4.3 Indication of any immediate medical attention and special treatment needed

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

alcohol resistant foam, Carbon dioxide (CO2), Powder, spray mist, (water)

Unsuitable extinguishing media

Strong water jet

5.2 Special hazards arising from the substance or mixture

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

5.3 Advice for firefighters

Provide a conveniently located respiratory protective device. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Ventilate affected area. Do not breathe vapours.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3 Methods and material for containment and cleaning up

For containment

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13).

For cleaning up

Clean using cleansing agents. Do not use solvents.

6.4 Reference to other sections

Safe handling: see section 7
Personal protection equipment: refer to section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on safe handling

Avoid contact with skin, eyes and clothes. Personal protection equipment: see section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

Advices on general occupational hygiene

When using do not eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

Storage class LGK3 - Flammable liquids

Further information on storage conditions

Keep container tightly closed. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Store in a well-ventilated and dry room at temperatures between 5 °C and 25 °C.

7.3 Specific end use(s)

Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

	CAS No.	Substance name	Source	Long-term /short-term (Spitzenbegrenzung)
*	64-17-5	ethanol; ethyl alcohol	ACGIH	- / - (-) mg/m³
*	64-17-5	ethanol; ethyl alcohol	IDLH	- / - (-) mg/m³
*	64-17-5	ethanol; ethyl alcohol	NIOSH	1,900 / - (-) mg/m³
*	64-17-5	ethanol; ethyl alcohol	OSHA	1,900 / - (-) mg/m³
*	67-63-0	isopropanol; isopropyl alcohol; propan-2-ol	ACGIH	492 / 984 (-) mg/m³
*	67-63-0	isopropanol; isopropyl alcohol; propan-2-ol	IDLH	- / - (-) mg/m³
*	67-63-0	isopropanol; isopropyl alcohol; propan-2-ol	NIOSH	980 / 1,225 (-) mg/m³
*	67-63-0	isopropanol; isopropyl alcohol; propan-2-ol	OSHA	980 / - (-) mg/m³

Additional information

Long-term: Long-term occupational exposure limit value
short-term: short-term occupational exposure limit value

Biological limit values

	CAS No.	Substance name	Source	Value/ Test material
*	67-63-0	isopropanol; isopropyl alcohol; propan-2-ol	ACGIH-BEI	40 mg/L / urine end of shift at end of work week

DNEL worker

	CAS No.	Substance name	DNEL type	DNEL value
*	64-17-5	ethanol; ethyl alcohol	Long-term – inhalation, systemic effects	380 mg/m³
*	67-63-0	isopropanol; isopropyl alcohol; propan-2-ol	Long-term – inhalation, systemic effects	500 mg/m³
*	67-63-0	isopropanol; isopropyl alcohol; propan-2-ol	Long-term - dermal, systemic effects	888 mg/kg bw/day

DNEL Consumer

	CAS No.	Substance name	DNEL type	DNEL value
*	64-17-5	ethanol; ethyl alcohol	Long-term – inhalation, systemic effects	114 mg/m³
*	67-63-0	isopropanol; isopropyl alcohol; propan-2-ol	Long-term – inhalation, systemic effects	89 mg/m³
*	67-63-0	isopropanol; isopropyl alcohol; propan-2-ol	Acute - inhalation, systemic effects	178
*	67-63-0	isopropanol; isopropyl alcohol; propan-2-ol	Long-term - dermal, systemic effects	319 mg/kg bw/day
*	67-63-0	isopropanol; isopropyl alcohol; propan-2-ol	Long-term - oral, systemic effects	26 mg/kg bw/day

PNEC

	CAS No.	Substance name	PNEC type	PNEC Value
*	64-17-5	ethanol; ethyl alcohol	aquatic, intermittent release	2.75 mg/L

*	64-17-5	ethanol; ethyl alcohol	aquatic, marine water	0.79 mg/L
*	64-17-5	ethanol; ethyl alcohol	sewage treatment plant	580 mg/L
*	64-17-5	ethanol; ethyl alcohol	sediment, freshwater	3.6 mg/kg sediment dw
*	64-17-5	ethanol; ethyl alcohol	sediment, marine water	2.9
*	67-63-0	isopropanol; isopropyl alcohol; propan-2-ol	PNEC soil, freshwater	28 mg/kg
*	67-63-0	isopropanol; isopropyl alcohol; propan-2-ol	PNEC sediment, marine water	552 mg/kg
*	67-63-0	isopropanol; isopropyl alcohol; propan-2-ol	PNEC sediment, freshwater	552 mg/kg
*	67-63-0	isopropanol; isopropyl alcohol; propan-2-ol	PNEC Secondary Poisoning	160 mg/kg
*	67-63-0	isopropanol; isopropyl alcohol; propan-2-ol	PNEC aquatic, marine water	140.9 mg/L
*	67-63-0	isopropanol; isopropyl alcohol; propan-2-ol	PNEC aquatic, freshwater	140.9 mg/L
*	67-63-0	isopropanol; isopropyl alcohol; propan-2-ol	PNEC sewage treatment plant (STP)	2,251 mg/L

8.2 Exposure controls

Provide good ventilation.This can be achieved with local or room suction.

Personal protection equipment

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Hand protection

Suitable material: NBR (Nitrile rubber)
Thickness of the glove material >= 0.4 mm
Breakthrough time >= 480 min

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. Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin.
Recommended glove articles: EN ISO 374

Skin protection

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

Eye/face protection

Eye glasses with side protection: EN 166

Body protection

When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn. Anti-static clothing including shoes are recommended.

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Colour	colourless
Odour	characteristic
pH at 20 °C	not applicable
Melting point/freezing point	-89.5 °C
	Source: isopropanol; isopropyl alcohol; propan-2-ol
Initial boiling point and boiling range	78.5 °C
	Source: ethanol; ethyl alcohol
Flash point	12 °C
flammability	Highly flammable liquid and vapour.
Lower explosion limit at 20°C	2 Vol-%
	Source: isopropanol; isopropyl alcohol; propan-2-ol
Upper explosion limit at 20°C	15 Vol-%

	Source: ethanol; ethyl alcohol
Vapour pressure at 20°C	43.824 mbar
Relative vapour density	not applicable
Density at 20 °C	0.81 kg/l
Water solubility at 20°C	completely miscible
Partition coefficient: n-octanol/water	see section 12
Ignition temperature in °C	> 365 °C
	Source: ethanol; ethyl alcohol
Decomposition temperature	not determined
Viscosity at 20 °C	700 mm²/s
particle characteristics	not applicable

9.2 Other information

Solid content	7.9 %
solvent content	92.0 %
Water content	0 %

SECTION 10: Stability and reactivity

10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

10.3 Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

10.4 Conditions to avoid

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7. Hazardous decomposition byproducts may form with exposure to high temperatures.

10.5 Incompatible materials

No further relevant information available.

10.6 Hazardous decomposition products

Decomposition products in case of fire: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

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

Skin corrosion/irritation

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

Serious eye damage/eye irritation

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

Respiratory or skin sensitisation

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

Overall assessment on CMR properties

May cause cancer.

STOT-single exposure

May cause drowsiness or dizziness.

STOT-repeated exposure

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

Aspiration hazard

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

Practical experience/human evidence

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: Headache, Dizziness, fatigue, amyosthenia, Dizziness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

11.2 Information on other hazards

Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

SECTION 12: Ecological information

12.1 Toxicity

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

12.2 Persistence and degradability

* **isopropanol; isopropyl alcohol; propan-2-ol**
Biodegradation = 2.32 %

Biodegradation = 62 %

12.3 Bioaccumulative potential

isopropanol; isopropyl alcohol; propan-2-ol
* Partition coefficient: n-octanol/water = 0.16
Partition coefficient: n-octanol/water = -0.31 (ethanol; ethyl alcohol)

* Partition coefficient: n-octanol/water = 0.05 (isopropanol; isopropyl alcohol; propan-2-ol)

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product/Packaging disposal

Do not empty into drains; dispose of this material and its container in a safe way.

Waste codes/waste designations according to EWC/AVV

080111* - Waste paint and varnish containing organic solvents or other dangerous substances
* Hazardous waste according to Directive 2008/98/EC (waste framework directive).

Other disposal recommendations

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

SECTION 14: Transport information

14.1 UN number or ID number

UN 1263

14.2 UN proper shipping name

Land transport (US DoT 49 CFR)

PAINT

Sea transport (IMDG)

PAINT

Air transport (ICAO-TI / IATA-DGR)

PAINT

14.3 Transport hazard class(es)

Land transport (US DoT 49 CFR)	3
Sea transport (IMDG)	3
Air transport (ICAO-TI / IATA-DGR)	3

14.4 Packing group

*	Land transport (US DoT 49 CFR)	II
*	Sea transport (IMDG)	II
*	Air transport (ICAO-TI / IATA-DGR)	II

14.5 Environmental hazards

Land transport (US DoT 49 CFR)	not applicable
Sea transport (IMDG)	not applicable

14.6 Special precautions for user

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.
Advices on safe handling: see parts 6 - 8

14.7 Maritime transport in bulk according to IMO instruments

No transport as bulk according to IBC Code.

14.8 Additional information

Land transport (US DoT 49 CFR)

Tunnel restriction code: D/E
* Limited quantity (LQ): 5 l
Hazard identification number (Kemler No.): 33

Sea transport (IMDG)

EmS-No.: F-E, S-E
Limited quantity (LQ): 5 l

Air transport (ICAO-TI / IATA-DGR)

not applicable

SECTION 15: Regulatory information

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

National regulations

Observe in addition any national regulations!

SARA Title III Section 311/312 Hazard Categories:
* Refer to section 2 of the safety data sheet.
This product contains max. 743 g/l g/l VOC (according to ASTM D2369).

Substance/product listed in the following inventories

Australian Inventory of Chemical Substances (AICS) - AU
Domestic Substances List (DSL) - CA
U.S. Toxic Substances Control Act (TSCA) - US

SECTION 16: Other information

List of relevant hazard statements and/or precautionary statements from sections 2 to 15

	H225	Highly flammable liquid and vapour.
*	H319	Causes serious eye irritation.
	H336	May cause drowsiness or dizziness.
	H350	May cause cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).

Key literature references and sources for data

Data arise from reference works and literature.

Abbreviations and acronyms

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

OEL: Occupational Exposure Limit Value
BLV: Biological limit values
CAS: Chemical Abstracts Service
CLP: Classification, Labelling and Packaging
CMR: Carcinogenic, Mutagenic and Reprotoxic
DIN: German Institute for Standardization / German industrial standard
DNEL: Derived No-Effect Level
EAKV: European Waste Catalogue Directive
EC: Effective Concentration
EC: European Community
EN: European Standard
EU/EEA: European Economic Area
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO-TI: International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG Code: International Maritime Code for Dangerous Goods
ISO: International Organization for Standardization
LC: Lethal Concentration
LD: Lethal Dose
:
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OECD: Organisation for Economic Cooperation and Development
PBT: persistent, bioaccumulative, toxic
PNEC: Predicted No Effect Concentration
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
UN: United Nations
VOC: Volatile Organic Compounds
vPvB: very persistent and very bioaccumulative

Indication of changes

* Data changed compared with the previous version.