

SAFETY DATA SHEET

FOLIATEC.com

According to Regulation (EC) 1907/2006 and Regulation (EC) 453/2010 (REACH)

Version: 2.0

SPRÜH FOLIEN REINIGER

Revision date: 21.06.2013

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

1.1. Product identifier:

Trade name: **Sprüh Folien Reiniger**

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

Use of the substance

/Mixture: cleaning agent

1.3. Details of the supplier of the safety data sheet:

FOLIATEC Böhm GmbH & Co Vertriebs KG

Neumeyerstr.70

90411 Nürnberg

techsupport@foliatec.de

www.foliatec.com

1.4. Emergency telephone number:

2. Tel.: +49-(0)911-97544-120

2. Hazard identification

2.1. Classification of the substance or mixture:

Classification (EC) 1272/2008

Flam. Aerosol 1; H222

Eye Irrit. 2; H319

Classification (67/548/EEC, 1999/45/EC)

F+; R12

2.2. Label elements:

Label elements (CLP)



GHS02



GHS07

Signal word: Danger

Hazard statements:

H222 Extremely flammable aerosol.

H319 Causes serious eye irritation.

Precautionary statements:

P102 Keep out of reach of children.

P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P271 Use only outdoors or in a well-ventilated area.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P403 Store in a well-ventilated place.

Contains: /

Text for labelling:

Whatever its contents: 'Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material.

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Contain: <5% anionic surfactants, perfume

Label elements (67/548/EEC or 1999/45/EC)

F+



Extremely flammable

R-phrases:

R12 Extremely flammable.

S-phrases:

S23 Do not breathe vapour/spray.

S51 Use only in well-ventilated areas.

Hazardous components which must be listed on the label:

/

Text for labelling:

Whatever its contents: 'Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of the reach of children.

Contain: <5% anionic surfactants, perfume

2.3. Other hazards:

No data available.

3. Composition/information on ingredients

Substance:

Mixture:

Chemical name:	Content (% m/m):	CAS: EC: Index:	Classification (67/548/EC):	Classification (1272/2008/EC):
Propan-2-ol	10 – 25	67-63-0 200-661-7 603-117-00-0	F; R11, Xi; R36, R67	Flam. Liq. 2; H225, Eye Irrit. 2; H319, STOT SE 3; H336
Propane	2,5 – 10	74-98-6 200-827-9 601-003-00-5	F+; R12	Flam. Gas. 1; H220, Press. Gass; H280
Isobutane	2,5 – 10	75-28-5 200-857-2 601-004-00-0	F+; R12	Flam. Gas. 1; H220, Press. Gass; H280

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4. First aid measures

4.1. Description of first measures:

General advice:	Remove contaminated clothing.
If inhaled	Remove to fresh air. If rapid recovery does not occur, transport to nearest medical facility for additional treatment.
In case of skin contact	Remove contaminated clothing. Flush exposed area with water and follow by washing with soap if available. Do not use solvents or thinners. In case of irritation consult with doctor.
In case of eye contact	Flush eyes with water while holding eyelids open. Rest eyes for 30 minutes. If redness, burning, blurred vision, or swelling persist, transport to the nearest medical facility for additional treatment.
If swallowed	If swallowed, do not induce vomiting; transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

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

Drowsiness and dizziness. Irritation and dermatitis, weakness.

4.3. Indification of any immediate medical attention and special treatment needed:

No data available.

5. Firefighting measures

5.1. Extinguishing media:

Suitable extinguishing media: Foam, water spray or fog. Dry chemical powder, carbon dioxide.

Unsuitable extinguishing media: Water jet.

5.2. Special hazards arising from the substance or mixture:

Specific hazards during fire fighting: Exposure to decomposition products may cause health problems. Possible in case of fire / high temperatures the formation of hazardous / toxic fumes.

5.3. Advice for firefighters:

Besondere Schutzausrüstung für die Brandbekämpfung: In the event of fire, self-contained breathing apparatus. Personal protective equipment.

Weitere Information: Standard procedure for chemical fires. Fighting measures that suit the environment. Explosion and fire fumes do not breathe. Use water spray to cool unopened containers. Collect contaminated firefighting water separately, do not empty into drains. Fire residues and contaminated firefighting water must be disposed in according to local regulations. Pay attention to flashback. Because of the high vapor pressure when heated bursting of the vessels.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures:

Refer to protective measures listed in sections 7 and 8 Personal protective equipment. Remove all sources of ignition. Avoid contact with eyes and skin. Ensure adequate ventilation, especially in confined spaces. Avoid inhalation of vapors or mists. Beware of vapors accumulating to form explosive concentrations, beware. Vapors may accumulate in low lying areas.

6.2. Environmental precautions:

Do not flush into surface water or sanitary sewer. Prevent further leakage or spillage if possible without risk. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3. Methods and material for containment and cleaning up:

Contain spilled liquid with sand, earth or other suitable absorbents. Recover free liquid in suitable containers. Clean contaminated area. Dispose of according to local regulations.

6.4. Reference to other sections:

See section: 7, 8, 11, 12 and 13.

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7. Handling and storage

7.1. Precautions for safe handling:

Advice on safe handling: Inventory levels at the workplace must be restricted. Use only in well ventilated areas. Vapors and spray mists. Avoid contact with eyes and skin. Do not spray on a naked flame or any incandescent material. Prevent the creation of flammable or explosive concentrations of vapor in air and avoid vapor exposure limits. Measures against electrostatic discharges. Personal protective equipment see section 8

Advice on protection against fire and explosion: Normal measures for preventive fire protection. Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Keep away from heat and ignition sources. Do not smoke. Sparking tools. Electrical equipment should be protected to the appropriate standards.

7.2. Conditions for safe storage, including any incompatibilities:

Requirements for storage arease and containers: Store in original container. CAUTION: Aerosol are under pressure. Keep away from direct sunlight and temperatures above 50 ° C. Do not apply force or throw into fire even after use. Do not spray on flames or red-hot objects. Keep container tightly closed in a dry, cool and well ventilated place. Storage regulations for aerosols!

Storage class: 2B, Aerosols

7.3. Specific en use(s):

No data available.

8. Exposure controls/personal protection

8.1. Control parameters:

Components	CAS-No.	Control parameters		Excess factor	Base
		ml/m ³ (ppm)	mg/m ³		
Propane	74-98-6	1.000	1.800	4	
Isobutane	75-28-5	1.000	2.400	4	
Propan-2-ol	67-63-0	200	500	4	

8.2. Exposure controls:

Technical protective equipment:

Provide sufficient air exchange and / or exhaust in work rooms.

Personal protective equipment:

Respiratory protection: At concentrations above the exposure limit they must use respiratory protection. Respirator with combination filter for particles and vapors (EN 141). Respirator with A filter.

Hand protection: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/the chemical mixture.

Eye protection: Tightly fitting safety goggles.

Protective clothing: Flame retardant antistatic protective clothing. Choose body protection according to the amount and concentration of the hazardous substance at the workplace.

Hygien measures: Handle with good industrial hygiene and safety practice. General industrial hygiene measures. Do not breathe spray. Contact with skin, eyes and clothing. When using do not eat, drink or smoke. Wash hands before breaks and after work. Skin protection plan note. Wash contaminated clothing before reuse.

Environmental exposure controls:

General advice: Do not flush into surface water or sanitary sewer. Further leakage or spillage if possible without risk. If the product contaminates rivers and lakes or drains inform respective authorities.

9. Physical and chemical properties

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9.1. Information on basis physical and chemical properties:

	Value	Unit	At	Methode	Notice
Appearance:	aerosol				
Colour:	colourless				
Odour:	characteristic				
Flash point:	Ca. -80	°C			Isobutane
Lower explosion limit:	1,40	Vol. %			Isobutane
Upper explosion limit:	9,4	Vol. %			Isobutane
Density:	0,943	g/cm ³			
Water solubility:	Soluble				

9.2. Other information:

Keine Daten verfügbar.

10. Stability and reactivity

10.1. Reactivity:

No data available.

10.2. Chemical stability:

The product is chemical stable.

10.3. Possibility of hazardous reactions:

No decomposition if stored and applied. Vapors may form explosive mixtures with air. Because of the high vapor pressure when heated bursting of the vessels.

10.4. Conditions to avoid:

Heat, flames and sparks.

10.5. Incompatible materials:

No data available.

10.6. Hazardous decomposition products:

Hazardous decomposition products: Possible in case of fire / high temperatures the formation of hazardous / toxic fumes.

11. Toxicological information

Acute toxicity:

Acute oral toxicity:

Propan-2-ol LD₅₀ > 2000 mg/kg

Acute inhalation toxicity:

Propan-2-ol LC₅₀ > 20 mg/l

Acute dermal toxicity:

Propan-2-ol LD₅₀ > 2000 mg/kg

Skin corrosion/irritation: May cause irritation.

Serious eye damage/eye irritation: May cause irritation.

Respiratory or skin sensitization: No data available

Germ cell mutagenicity: No data available

Carcinogenicity: No data available

Reproductive and developmental toxicity: No data available

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Other information: Drowsiness and dizziness. Irritation and dermatitis, weakness.

12. Ecological information

12.1. Toxicity:

Toxicity to fish:

Propan-2-ol 100 < LC/EC/IC50 <= 1000 mg/l

Toxicity to Daphnia:

Propan-2-ol LC/EC/IC50 > 1000 mg/l

Toxicity to algae:

Propan-2-ol LC/EC/IC50 > 1000 mg/l

Toxicity to bacteria:

Propan-2-ol LC/EC/IC50 > 1000 mg/l

12.2. Persistenc and degradability:

No data available.

12.3. Bioaccumulative potencial:

No data available.

12.4. Mobility in soil:

No data available.

12.5. Results of PBT- and vPvB assesment:

No data available.

12.6. Other adverse effects:

The penetration of the product into drains, water courses or the soil should be prevented.

13. Disposal considirations

13.1. Product:

Waste key number: 160504* = Accumulators containing certain dangerous gases in pressurized containers.
* = The disposal must be provided.

Recommendation: Do not open, even after use or burn.
Disposal according to official regulations.

13.2. Packaging:

Waste key number: 150110 = Packaging containing residues of hazardous substances or contaminated by dangerous substances

Recommendation: Drain thoroughly and completely as possible.
Disposal according to official regulations.

14. Transport information

ADR

UN number: 1950

Product designation: AEROSOLS

Class: 2

Packaging group: --

Code: 5F

Label: 2.1

Limited quantities: 1 L

Tunnel restriction code: (D)

Environmentally hazardous: no

RID

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UN number 1950
Product designation: AEROSOLS
Class: 2
Packaging group: --
Code: 5F
Label: 2.1
Hazard identification No. 23
Limited quantities: LQ2
Tunnel restriction code: (D)
Environmentally hazardous: no

Besondere Vorsichtsmaßnahmen für den Verwender:

Vgl. Abschnitt: 6, 7 und 8

15. Regulatory information

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

Council Directive (96/82/EC):		Quantity 1	Quantity 2
	Extremely flammable	10 t	50 t

15.2. Chemical safety assessment:

No data available.

16. Other information

Full text of R-phrases referred to under sections 2 and 3:

R11 Highly flammable.
R12 Extremely flammable.
R36 Irritating to eyes.
R67 Vapours may cause drowsiness and dizziness.

Full text of H-statements referred to under sections 2 and 3:

H220 Extremely flammable gas.
H225 Highly flammable liquid and vapour.
H280 Contains gas under pressure; may explode if heated.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Changes:

- Item 1.3
- Item 2
- Item 14