

RIEMANN

P20 SPF 20 Continuous Spray, P20 SPF30 Continuous Spray, P20 SPF 50 Continuous Spray

SAFETY DATA SHEET

Safety data sheet according to (EC) No. 1907/2006

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

1.1. Product identifier:

P20 SPF 20 Continuous Spray, P20 SPF30 Continuous Spray, P20 SPF 50 Continuous Spray

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

Cosmetic product (sun screen). Aerosol.

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

RIEMANN

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H: www.riemann.com

Responsible person for the safety data sheet (e-mail): info@riemann.dk

1.4. Emergency telephone number:

NHS (England or Wales): Dial 111 or 0845 4647 NHS 24 (Scotland): Dial 111

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture:

Cosmetic products are not classified according to CLP (1272/2008).

Extremely flammable aerosol.

CLP (1272/2008): Flam. Aer. 1;H222 H229

2.2. Label elements:



Danger

H222: Extremely flammable aerosol.

H229: Pressurised container: May burst if heated.

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

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

P211: Do not spray on an open flame or other ignition source.

P251: Do not pierce or burn, even after use.

P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50°C.

P501: Dispose of contents/container according to local regulations.

2.3. Other hazards: None known.

PBT/vPvB: No ingredients are PBT/vPvB, according to the criteria in REACH Annex XIII.

SECTION 3: Composition/information on ingredients

3.2. Mixtures:

% w/w	Substance name	CAS-no.	EC-no.	Index-no.	REACH reg.-no.	Classification
30 - <60	Ethanol	64-17-5	200-578-6	603-002-00-5	-	Flam. Liq. 2;H225
≤ 10	Octocrylene*	6197-30-4	228-250-8	None	-	Aquatic Chronic 4;H413
≤ 5	Butyl methoxy-dibenzoylmethane*	70356-09-1	274-581-6	None	-	Aquatic Chronic 4;H413

*) INCI-name of the substance.

Wording of hazard statements - see section 16.

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SECTION 4: First-aid measures

4.1. Description of first aid measures:

- Inhalation: Move the affected person to fresh air. Keep at rest. If symptoms persist: Seek medical advice.
- Skin contact: Product is intended to be in contact with the skin when used as directed.
In case of skin of discomfort: Seek medical advice.
- Eye contact: Immediately flush with water or physiological salt water for at least 15 minutes, holding eye lids open, remember to remove contact lenses, if any. Get medical attention; continue to flush on the way.
- Ingestion: Rinse mouth and drink plenty of water. Keep at rest. In case of discomfort: Get medical attention.
- Burns: Flush with water until pain ceases. Remove cloth that isn't burnt to the skin. If needed seek medical attention, continue to flush on the way.

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

May cause irritation of lungs (spraying) and dry and cracked skin. Prolonged or frequent exposure to vapours of volatile organic compounds may result in damage on liver, kidneys, blood or central nervous system.

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

Show this safety data sheet to a physician or emergency ward.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media:

Use water spray, carbon dioxide, dry chemical or foam.

5.2. Special hazards arising from the substance or mixture:

Risk of explosion if heated under confinement. Do not breathe smoke fumes. In case of fire, the product may form hazardous decomposition products such as oxides of carbon.

5.3. Advice for firefighters:

Remove containers if possible or keep containers cool by spraying with water. Use soft jet of water to cool the containers. Use breathing apparatus with an independent source of air.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures:

The product is intended to be in contact with the skin. Remove sources of ignition. Ventilate the area.

6.2. Environmental precautions:

Do not empty into drains - see section 12. Inform appropriate authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up:

Clean up small amounts with a wet cloth. Larger amounts can be cleaned up with paper towels and placed in a suitable container. Clean with water. Further handling of spillage - see section 13.

6.4. Reference to other sections:

See references above.

SECTION 7: Handling and storage

7.1. Precautions for safe handling:

Avoid contact with eyes. Avoid breathing vapours/aerosols. Provide adequate ventilation. Avoid contact with skin, eyes and clothing. Change contaminated clothes. Wash contaminated skin with water and mild soap. Never to be handled close to fire, sparks and hot surfaces - No smoking. Do not spray on flames or red-hot objects.

7.2. Conditions for safe storage, including any incompatibilities:

Fireproof. Keep out of the reach of children. Protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use. Heating may result in increased pressure and risk of container bursting. Observe official regulations on storage of pressurized containers. Store securely and out of reach of unauthorized personnel and separated from food, feed etc.

7.3. Specific end use(s):

See section 1.

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SECTION 8: Exposure controls/Personal protection

8.1. Control parameters:

Occupational exposure limits:

<u>Substance</u>	<u>8-hour TWA</u>	<u>15-min STEL</u>
Ethanol	1000 ppm = 1920 mg/m ³	-

DNEL/PNEC: No CSR.

8.2. Exposure controls:

Appropriate engineering controls: Provide efficient ventilation.

Personal protective equipment:

Inhalation: Respiratory equipment is normally not required by sufficient ventilation or short-term use (cosmetic product).
In case of extensive use and inadequate ventilation: Wear self contained breathing apparatus (EN14594) because Propane vapours are not absorbed by the filter.

Skin: Wear protective gloves of nitrile (EN 374) in case of prolonged work with the mixture.
Breakthrough time: Approximately 3 hours.

Eyes: Wear tight fitting safety goggles (EN166) when risk of eye contact.

Environmental exposure controls: None in particular.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties:

Appearance:	Liquid in a pressurized container (aerosol)
Odour:	None
pH (concentrate):	Not relevant
Melting point / freezing point (°C):	Not determined
Initial boiling point and boiling range (°C):	Not determined
Decomposition temperature (°C):	Not determined
Flash point (°C):	< 23
Evaporation rate:	Not determined
Flammability (solid, gas):	Not relevant (liquid)
Upper/lower flammability or explosive limits (vol-%):	Not determined
Vapour pressure (kPa, 20°C):	Not determined
Vapour density (air=1):	Not determined
Relative density (g/ml):	Not determined
Solubility:	Miscible in water
Partition coefficient: n-octanol/water, Log K _{ow} :	Not determined
Auto-ignition temperature (°C):	Not determined
Viscosity:	Not relevant
Explosive properties/Oxidising properties:	Not relevant

9.2. Other information:

None relevant

SECTION 10: Stability and reactivity

10.1. Reactivity:

No available data.

10.2. Chemical stability:

Stable under normal conditions (see section 7).

10.3. Possibility of hazardous reactions:

Vapours can be ignited by a spark, glow or a hot surface. Vapours are heavier than air and may form explosive mixtures with air.

10.4. Conditions to avoid:

Formation of sparks and glows. Excessive heating and sources of ignition.

10.5. Incompatible materials:

May react strongly with oxidizing agents and strong acids and bases.

10.6. Hazardous decomposition products:

In case of extensive heating the mixture may form hazardous decomposition product such as oxides of carbon.

SECTION 11: Toxicological information**11.1. Information on toxicological effects:**

Hazard class	Data	Test	Data source
Acute toxicity:			
Inhalation:	LC ₅₀ (rat) = 125 mg/l/4H (Ethanol)	No information	IUCLID
Dermal:	LD _{L0} (rabbit) = 20000 mg/kg (Ethanol)	No information	IUCLID
Oral:	LD ₅₀ (rat) = 1780 mg/kg (Ethanol)	No information	IUCLID
Corrosion/irritation:	No irritation, skin, rabbit (Ethanol)	OECD 404	IUCLID
	None to moderate irritation, eye, rabbit (Ethanol)	OECD 405	IUCLID
Sensitization:	No skin sensitization, guinea pig (Ethanol)	GPMT, etc.	IUCLID
CMR:	Data on mutagenicity is inconclusive (Ethanol)	Miscellaneous	IUCLID

Information on likely routes of exposure: Inhalation, skin and ingestion.

Symptoms:

Inhalation: Vapours and aerosol mist may cause irritation to the airways. Inhalation of larger amounts may induce discomfort, nausea, dizziness, headache, narcosis and unconsciousness.

Skin: The product is intended to be in contact with the skin. No discomfort is expected during normal use. In case of skin discomfort: Seek medical advice. Possibly irritation with redness.

Eyes: May cause irritation with redness.

Ingestion: May irritate the mucous membranes. May cause symptoms like nausea, vomiting, diarrhoea.

Chronic effects: Prolonged or frequent exposure to vapours of volatile organic compounds may result in damage on liver, kidneys, blood or central nervous system (including brain damage).

SECTION 12: Ecological information**12.1. Toxicity:**

Aquatic	Data	Test (Media)	Data source
Fish	LC ₅₀ (Pimephales promelas, 96t) = 15300 mg/l (Ethanol)	No info.	IUCLID
	LC ₅₀ (Fish, 96h) > 100 mg/l (Octocrylene & Butyl methoxydibenzoylmethane)	(FW)OECD 201	ECHA diss
Daphnia	EC ₅₀ (Daphnia magna, 48t) = 9268 - 14221 mg/l (Ethanol)	No information	IUCLID
Algae	No applicable/available data	-	-

12.2. Persistence and degradability:

Ethanol is rapidly degradable.

Octocrylene & Butyl methoxydibenzoylmethane are persistent (not rapidly degradable).

12.3. Bioaccumulative potential:

Ethanol: Log K_{ow} < 1 (calculated) – no bioaccumulation is expected.

Octocrylene & Butyl methoxydibenzoylmethane. Log K_{ow} > 6 (calculated) – high bioaccumulation potential.

12.4. Mobility in soil:

Ethanol: K_{oc} (calculated) < 10 – high mobility in soil.

12.5. Results of PBT and vPvB assessment:

No ingredients are PBT/vPvB, according to the criteria in REACH Annex XIII.

12.6. Other adverse effects:

None known.

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

Occupational: Pressurised container (aerosol) is not to be pierced or burned, even after use. The preparation is to be considered as hazardous waste. Disposal should be according to local, state or national legislation. Dispose of through authority facilities or pass to chemical disposal company.

EWC-code:

16 05 04 (Pressurized container with mixture) and 15 02 02 (Paper towel, inert material etc. contaminated with the mixture)

SECTION 14: Transport information

14.1 UN-no.: 1950

14.2 UN proper shipping name: AEROSOLS, FLAMMABLE

14.3 Transport hazard class(es): 2

14.4 Packing group: 5F

14.5 Environmental hazards: No.

14.6 Special precautions for user: None.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not relevant.



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SECTION 15: Regulatory information

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

No special requirements for private use, but it must be labelled according to the legislation on cosmetic products (1223/2009).

Occupational use:

Must not be used by persons under 18 years of age. The employer shall assess the working conditions and, if there is any risk to the safety or health and any effects on the pregnancy or breastfeeding of workers, take the necessary measures to adjust the working conditions (Directive 92/85/EEC).

15.2. Chemical Safety Assessment:

No CSR.

SECTION 16: Other information

Hazard statements mentioned in section 2 and 3:

H222: Extremely flammable aerosol.

H225: Highly flammable liquid and vapour.

H229: Pressurised container: May burst if heated.

H413: May cause long lasting harmful effects to aquatic life.

Abbreviations:

CMR = Carcinogenicity, mutagenicity and reproductive toxicity.

CSR = Chemical Safety Report

DNEL = Derived No-Effect Level

EC₅₀ = Effect Concentration 50 %

ECHA diss. = European Chemical Agency Registration dossier

FW = Fresh Water

LC₅₀ = Lethal Concentration 50 %

LD₅₀ = Lethal Dose 50 %

PBT = Persistent, Bioaccumulative, Toxic

PNEC = Predicted No-Effect Concentration

vPvB = very Persistent, very Bioaccumulative

Literature:

ECHA diss. = European Chemical Agency Registration dossier

EPA Ecotox = The US Environmental Protection Agency's database on ecotoxicological effects for chemicals.

IARC = International Agency for Research on Cancer (monograph, resumé)

IUCLID = International Uniform Chemical Database Information

RTECS = Register of Toxic Effects of Chemical Substances.

Training advice:

No special training is required. However, the user should be well instructed in the execution of his/her task, be familiar with this Safety Data Sheet and have normal training in the use of personal protective equipment.

Additional information:

This mixture is a cosmetic product and therefore there is no SDS requirement, however this SDS has been prepared anyway as a service to our customers.

Changes since the previous edition:

1, Product identifier.

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