

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

Antiperspirant. Cosmetic product.

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:**

The product must be labelled in accordance with REGULATION (EC) No 1223/2009 on cosmetic products. Cosmetic products are not labelled according to CLP (1272/2008). This Safety Data Sheet is intended as a service to customers/users of this product.

Highly flammable and irritating liquid with long-term effects.

CLP (1272/2008):

Flam. Liq. 2;H225 Skin Irrit. 2;H315 Eye Irrit. 2;H319 STOT SE 3;H335

2.2. Label elements:**DANGER**

H225: Highly flammable liquid and vapour.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

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, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261: Avoid breathing vapours.

P337+P313: If eye irritation persists: Get medical advice/attention.

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
50-80	Ethanol	64-17-5	200-578-6	603-002-00-5	-	Flam. Liq. 2;H225 Eye Irrit. 2;H319
10-25	Aluminium-chloride, hexahydrate	7784-13-6	231-208-1*	-	-	Skin Irrit. 2;H315 Eye Irrit. 2;H319 STOT SE 3;H335

*The EC number is stated for the anhydrous compound.

Wording of hazard statements - see section 16.

SECTION 4: First-aid measures

4.1. Description of first aid measures:

- Inhalation: Move the affected person to fresh air. Keep at rest. In case of discomfort: Seek medical advice.
- Skin contact: Product is intended to be in contact with the skin when used as directed. If symptoms persist: 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. If symptoms persist: Get medical attention; continue to flush on the way.
- Ingestion: Rinse mouth and drink plenty of water. **Do not induce vomiting.** 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:

Irritation of eyes and skin with redness and pain. 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).

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 (never water jet), dry chemical, foam or carbon dioxide.

5.2. Special hazards arising from the substance or mixture:

Do not breathe smoke fumes. In case of fire, the product may form hazardous decomposition products such as carbon oxides.

5.3. Advice for firefighters:

Remove containers if possible. 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. Ventilate area of spill. Remove sources of ignition.

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 breathing vapours. Provide adequate ventilation. Avoid contact with eyes and clothing. Never to be handled close to fire, sparks and hot surfaces. No smoking.

Occupational:

Required access to water, eye wash fountain and emergency shower.

7.2. Conditions for safe storage, including any incompatibilities:

Fireproof. Properly sealed container, dry and cool.

Professional storage: Storage must be in compliance with all regulatory requirements pertaining to flammable liquids.

Store securely and out of reach of unauthorized personnel and separated from food, feed, drugs etc.

7.3. Specific end use(s):

See section 1.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters:

Occupational exposure limits (EH40/2015 with later amendments (2018)):

Substance	TWA (8h)
Ethanol	1000 ppm = 1920 mg/m ³
Aluminium salts, soluble	2 mg/m ³

DNEL/PNEC: No CSR.

8.2. Exposure controls:

Appropriate engineering controls: None in particular.

Personal protective equipment:

Inhalation: None during normal use (cosmetic product). In case of prolonged work or inadequate ventilation: Use a self-contained breathing apparatus. (EN 14594).

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

Eyes: Tightly fitting safety goggles (EN 166) when there is risk of splashes.

Environmental exposure controls: None in particular.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties:

Appearance:	Liquid in container
Odour:	None
pH:	Not determined
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
Upper/lower flammability or explosive limits (vol-%):	Not determined
Vapour pressure:	Not determined
Vapour density (air=1):	Not determined
Relative density:	Not determined
Solubility:	Miscible in water
Partition coefficient: n-octanol/water, Log K _{ow} :	Not determined
Auto-ignition temperature (°C):	Not determined
Viscosity:	Not determined
Explosive properties	Vapours may form explosive mixtures with air.
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. Flammable.

10.3. Possibility of hazardous reactions:

Inflammable at temperatures above the flash point. Vapours can be set on fire by a spark, a hot surface or an ember. Vapours may form explosive mixtures with air. Vapours are heavier than air at ordinary temperatures.

10.4. Conditions to avoid:

The formation of sparks and embers including excessive heating and freezing.

10.5. Incompatible materials:

None known.

10.6. Hazardous decomposition products:

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects:

Hazard class	Data	Test	Data source
Acute toxicity:			
Inhalation	LC ₅₀ (rat) = 117-125 mg/l/4H (Ethanol)	OECD 403	ECHA
Dermal	LD _{Lo} (rabbit) = 20000 mg/kg (Ethanol)	No info	IUCLID
Oral	LD ₅₀ (rat) = 1780 mg/kg (Ethanol)	No info	IUCLID
	LD ₅₀ (rat) = 3311 mg/kg (Aluminium chloride hexahydrate)	No info	RTECS
Corrosion/irritation:	Moderate eye irritation, no skin irritation, rabbit (Ethanol)	OECD 404, 405	ECHA
	Mild irritation of skin, human (Aluminium chloride hexahydrate)	Draize	RTECS
	Serious irritation, Eye, rabbit (Aluminium chloride hexahydrate)	OECD 405	ECHA
Sensitization:	No skin sensitization, guinea pig (Ethanol, Aluminium chloride hexahydrate)	GPMT, etc. OECD 406	IUCLID, ECHA
CMR:	Data on mutagenicity is inconclusive (Ethanol)	Miscellaneous	IUCLID

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

Symptoms:

Inhalation: Inhalation of high concentrations may cause irritation of the respiratory tract and lead to headache, drowsiness, dizziness.

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 and pain

Eyes: Irritation with redness and pain.

Ingestion: May cause irritation in the gastrointestinal tract.

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, 96h) = 15300 mg/l (Ethanol) LC ₅₀ (Fish, 96h) > 0.156 mg/l (Aluminium chloride hexahydrate)	No info (FW) OECD 201	IUCLID ECHA
Daphnia	EC ₅₀ (Daphnia magna, 48h) = 9268 - 14221 mg/l (Ethanol) EC ₅₀ (Daphnia magna, 48h) > 0.214-1.26 mg/l (Aluminium chloride hexahydrate)	No info (FW) OECD 202	IUCLID ECHA
Algae	No available or applicable data	-	-

12.2. Persistence and degradability:

Ethanol is rapidly degradable (OECD 301 D).

12.3. Bioaccumulative potential:

Ethanol: Log K_{ow} <1 – No bioaccumulative potential.

12.4. Mobility in soil:

Ethanol: K_{oc} <10 – Very large mobility expected 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: The mixture 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:

20 01 13 (mixture itself) and 15 02 02 (Paper towel, inert material etc. contaminated with the mixture)

SECTION 14: Transport information

(ADR/RID/IMDG/IATA)

14.1. UN-no.: 1266

14.2. UN proper shipping name: PERFUMERY PRODUCTS with flammable solvents, N.O.S. (ETHANOL)

14.3. Transport hazard class(es): 3

14.4. Packing group: II

14.5. Environmental hazards: No.

14.6. Special precautions for user: None.

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

SECTION 15: Regulatory information

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

No special requirements for private use. The mixture 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 3:

H225: Highly flammable liquid and vapour.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

Abbreviations:

CMR = Carcinogenicity, mutagenicity and reproductive toxicity.

CSR = Chemical Safety Report

DNEL = Derived No-Effect Level

EC₅₀ = Effect Concentration 50 %

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 = European Chemical Agency Registration dossier

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:

SDS replaces previous versions of SDS for Riemann Antiperspirant Perspirex 25% and Riemann Antiperspirant (10-20%).

Section 2, 3 and minor changes in section 1-16.

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