

Safety Data Sheet

Amawi Technologies GbR
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According to Regulation (EC) No 1907/2006 (REACH), Annex II, as amended by Regulation (EU) 2020/878

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ALCOHOL CLEANING WIPE (pre-moistened, single sealed sachet)

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier	Alcohol cleaning wipe, pre-moistened non-woven wipe in a single sealed sachet (ethanol/water, max. approx. 1 ml liquid per wipe). Contained in: AT-FBC-3 (Frostbite Cleaner Mini), AT-FB-70-20-MIX-9R (Frostbite Pad 9-pack kit).
1.2 Relevant identified uses	Cleaning of surfaces of electronic components (removal of thermal paste residues) before applying thermal interface material. Uses advised against: not a medical device, not a biocidal product, not for skin disinfection.
1.3 Supplier	Amawi Technologies GbR, Ulmenweg 3, 37077 Göttingen, Germany Telephone: +49 171 5171287 · E-mail: support@amawitech.com
1.4 Emergency telephone number	Poison Information Centre North (GIZ-Nord), Göttingen, 24 h: +49 551 19240

2. HAZARDS IDENTIFICATION

2.1 Classification (Regulation (EC) No 1272/2008)	The impregnating liquid is classified: Flam. Liq. 2, H225 Highly flammable liquid and vapour. Eye Irrit. 2, H319 Causes serious eye irritation.
2.2 Label elements	Pictograms: GHS02 (flame), GHS07 (exclamation mark). Signal word: Danger. H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 Keep container tightly closed. P280 Wear eye protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice. P403+P235 Store in a well-ventilated place. Keep cool. Sachets of 10 ml or less: reduced labelling according to CLP Annex I, 1.5.2.
2.3 Other hazards	Each wipe contains only about 1 ml of liquid. Vapours may form flammable mixtures with air when many sachets are opened in a confined space. The ingredients do not meet the PBT or vPvB criteria. No endocrine-disrupting properties known.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Mixture	Non-woven carrier impregnated with an ethanol/water solution. Liquid content: max. approx. 1 ml per wipe.
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Ingredients of the liquid

Name	CAS	EC	Index	Classification (CLP)	Content
Ethanol	64-17-5	200-578-6	603-002-00-5	Flam. Liq. 2, H225; Eye Irrit. 2, H319	60-65 %
Water	7732-18-5	231-791-2	-	Not classified	35-40 %

Full text of H statements: section 16. Carrier: non-woven fabric (not classified).

4. FIRST AID MEASURES

4.1 Eye contact	Rinse immediately with plenty of water for at least 15 minutes, keeping the eyelids open. Remove contact lenses if easy to do. If irritation persists, consult an eye doctor.
4.1 Skin contact	No special measures needed. Frequent contact can dry out the skin; use skin care cream.
4.1 Inhalation	Not expected with normal use. Move to fresh air if dizziness or headache occurs.
4.1 Ingestion	Do not swallow the wipe. Rinse mouth, drink water. Seek medical advice if a wipe has been swallowed.
4.2 Most important symptoms	Eye irritation, redness. At high vapour concentrations: headache, dizziness.
4.3 Medical attention	Treat symptomatically.

5. FIREFIGHTING MEASURES	
5.1 Extinguishing media	Suitable: alcohol-resistant foam, carbon dioxide, dry powder, water spray. Unsuitable: full water jet.
5.2 Special hazards	Highly flammable. Vapours are heavier than air and may travel to ignition sources. Combustion produces carbon monoxide and carbon dioxide.
5.3 Advice for firefighters	Self-contained breathing apparatus. Cool closed containers with water spray.

6. ACCIDENTAL RELEASE MEASURES	
6.1 Personal precautions	Keep away from ignition sources. Ensure ventilation.
6.2 Environmental precautions	No special measures for single wipes. Larger quantities: do not allow into drains.
6.3 Clean-up	Collect opened or damaged sachets and dispose of them according to section 13.

7. HANDLING AND STORAGE	
7.1 Safe handling	Open the sachet only shortly before use. Keep away from ignition sources, do not smoke. Avoid contact with eyes. Only use on switched-off, cooled-down and disconnected devices; let the surface dry completely (evaporation within seconds) before switching on.
7.2 Storage	Store sachets closed in a cool, dry, well-ventilated place away from heat, sunlight and ignition sources. Storage temperature 5-30 °C. Keep away from oxidising agents. Keep out of reach of children.
7.3 Specific end use	Cleaning wipe for electronics (see 1.2).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION	
8.1 Control parameters	Ethanol (CAS 64-17-5): AGW Germany (TRGS 900) 200 ml/m ³ = 380 mg/m ³ , peak limitation category II(4).
8.2 Exposure controls	Normal room ventilation is sufficient for the use of single wipes. Eye protection: avoid touching the eyes; safety glasses for frequent professional use. Hand protection: not required for occasional use; nitrile gloves for frequent use. Respiratory protection: not required.

9. PHYSICAL AND CHEMICAL PROPERTIES (impregnating liquid)	
Physical state / colour / odour	Liquid absorbed in a white non-woven wipe; colourless; alcoholic odour.
Flash point	Approx. 21-23 °C (closed cup, literature value for 60-65 % ethanol/water, not measured).
Boiling point	Approx. 79-81 °C.
Flammability limits (ethanol)	Lower 3.1 vol %, upper 27.7 vol %.
Auto-ignition temperature (ethanol)	Approx. 400 °C.
Density	Approx. 0.89-0.90 g/cm ³ (20 °C).
Solubility in water	Completely miscible.
pH	Approx. 7 (neutral).
Oxidising / explosive properties	None.

10. STABILITY AND REACTIVITY	
10.1-10.3 Reactivity, stability	Stable under normal conditions. No hazardous reactions known with normal use.
10.4 Conditions to avoid	Heat, open flames, sparks, direct sunlight.
10.5 Incompatible materials	Strong oxidising agents, alkali metals, acids and acid anhydrides.
10.6 Hazardous decomposition products	None under normal conditions. Combustion: carbon monoxide, carbon dioxide.

11. TOXICOLOGICAL INFORMATION	
11.1 Acute toxicity	Ethanol: LD50 oral (rat) 10,470 mg/kg; LC50 inhalation (rat, 4 h) 124.7 mg/l. Not classified as acutely toxic.

Skin corrosion / irritation	Not classified. Repeated contact may cause dryness of the skin.
Serious eye damage / irritation	Causes serious eye irritation (Eye Irrit. 2).
Sensitisation, CMR, STOT	Not classified. (Carcinogenicity of ethanol relates to the drinking of alcoholic beverages and is not relevant to this use.)
11.2 Other information	No endocrine-disrupting properties known.

12. ECOLOGICAL INFORMATION

12.1 Toxicity	Ethanol: LC50 fish (Pimephales promelas, 96 h) > 10,000 mg/l. Low toxicity to aquatic organisms.
12.2 Persistence and degradability	Ethanol is readily biodegradable.
12.3-12.5	Low bioaccumulation potential (log Kow -0.31). Highly mobile in water. Not PBT / vPvB.
12.6-12.7	No endocrine-disrupting properties known. No other adverse effects known.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment	Used wipes from private use: residual waste. Commercial users: waste code (AVV/EWC) 15 02 03 (absorbents, wiping cloths), or 15 02 02* if contaminated with hazardous substances. Unopened sachets in large quantities: hand over to a licensed disposal company. Packaging: recycling via the dual system (LUCID).
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14. TRANSPORT INFORMATION

14.1-14.4 ADR / RID / IMDG	Not subject to the regulations: special provision 216 (UN 3175). Sealed packets containing less than 10 ml of a packing group II flammable liquid absorbed into a solid material, with no free liquid in the packet. Each wipe contains max. approx. 1 ml.
ICAO-TI / IATA-DGR	Not subject to the regulations: special provision A46 (UN 3175), same conditions.
Note	The impregnating liquid on its own (in bulk) would be UN 1170 ETHANOL SOLUTION, class 3, packing group II. This does not apply to the finished wipes in sealed sachets.
14.5-14.7	Environmental hazards: no. Special precautions: none. Transport in bulk: not applicable.

15. REGULATORY INFORMATION

15.1 EU	REACH SVHC candidate list (Art. 59): none. REACH Annex XIV / XVII: not relevant. Seveso III (2012/18/EU): category P5c (flammable liquids) applies to the liquid; not relevant for the small quantities in the wipes. Not placed on the market as a biocidal product (Regulation (EU) No 528/2012) or medical device.
Germany	Water hazard class: WGK 1 (slightly hazardous to water, ethanol). Storage class (TRGS 510): 3.
15.2 Chemical safety assessment	Not carried out for the mixture.

16. OTHER INFORMATION

Basis	Composition and liquid quantity as stated by the wipe manufacturer (2026). Ingredient data from the REACH registration of ethanol and CLP Annex VI. Physical values of the liquid are literature values for ethanol/water mixtures, not measurements of this batch.
Dry wipes	The kits also contain dry non-woven wipes without liquid. These are articles under REACH and are not covered by an SDS.
Full text of H statements	H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation.
Abbreviations	ADR: road transport of dangerous goods · AGW: workplace limit value (Germany) · CLP: Regulation (EC) No 1272/2008 · IATA-DGR: air transport · IMDG: sea transport · PBT/vPvB: persistent, bioaccumulative, toxic / very persistent, very bioaccumulative · RID: rail transport · SVHC: substance of very high concern · WGK: water hazard class

Disclaimer

The information is based on our current knowledge and describes the product with regard to safety requirements. It does not represent a guarantee of properties.