

SAFETY DATA SHEET

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

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier:****Formula 11**

Product form: Mixture
 Product name: Cleaning Card
 Product code: AM85156 & AM 85157
 Type of product: Detergent

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

Main Category of use: Professional cleaning
 Function or category of use: Card or liquid to clean magnetic and chip card reader heads.

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

AM Denmark A/S Phone: +45 - 49 14 22 00
 1 Skudehavnsvej
 DK-2150 Nordhavn Fax.: +45 - 49 14 11 81
 Denmark

am@am-denmark.comwww.am-denmark.com**1.4. Emergency telephone:**

Denmark: Emergency: 112 - Poison line: +45 82 12 12 12 giftlinjen@regionh.dk
 Switzerland: Emergency: 145 - Toxinfo: +41 44 251 51 51 info@toxinfo.ch

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture:**

Classification according to regulation (EC) No. 1275/2008 (CLP)

- Not classified

Classification according to Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

- Not classified

2.2. Label elements:

Labelling according to regulation (EC) No. 1275/2008 (CLP)

Precautionary statements (CLP): P102: Keep out of reach of children.
 P301+P310: IF SWALLOWED: Immediately call POISON CENTER or doctor/physician

Child- resistant fastening: No

Tactile warning: No

2.3. Other hazards: None known.

PBT/vPvB: The ingredients are not considered PBT/vPvB according to criteria in Annex XIII.

SECTION 3: Composition/information on ingredients**3.1 Substance**

Not applicable

3.2. Mixtures:

Name	Product identifier	%	Classification according to Directive 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Ethanol	(CAS No) 64-17-5 (EC no) 200-578-6 (EC index no) 603-002-00-5	0.1 - 1	F; R11	Flam. Liq. 2, H225 Eye Irrit. 2, H319

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2-butoxyethanol	(CAS No) 111-76-2 (EC no) 203-905-0 (EC index no) 603-014-00-0	0.1 - 1	Xn; R20/21/22 Xi; R36/38	Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Skin Irrit. 2, H315 Eye Irrit. 2, H319
2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether	(CAS No) 112-34-5 (EC no) 203-961-6 (EC index no) 603-096-00-8	0.1 - 1	Xi; R36	

Full text of R- and H-statements:– see section 16.

SECTION 4: First-aid measures**4.1. Description of first aid measures:**

First-aid measures general:	If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation :	Allow breathing of fresh air.
First-aid measures after skin contact:	Wash with plenty of soap and water.
First-aid measures after eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion:	Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Symptoms/injuries after eye contact: Direct contact with the eyes is likely to be irritating.

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

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

SECTION 5: Fire-fighting measures**5.1. Extinguishing media:**

Suitable extinguishing media:	Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media:	Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture:

No additional information available.

5.3. Advice for firefighters:

Firefighting instructions:	Exercise caution when fighting any chemical fire.
Protection during firefighting:	Personal protective equipment.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures:**

6.1.1. For non-emergency personnel:	
Emergency procedures:	Evacuate unnecessary personnel.
6.1.2. For emergency responders:	
Protective equipment:	No special requirements.
Emergency procedures:	Ventilate area.

6.2. Environmental precautions:

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

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Take up with absorbent material (e.g. general-purpose binder) and place in marked container for disposal. Clean with water.

Further handling of spillage - see section 13.

6.4. Reference to other sections:

See above.

SECTION 7: Handling and storage**7.1. Precautions for safe handling:**

Precautions for safe handling:

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Hygiene measures:

Wash immediately with plenty of soap and water thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities:

Storage conditions:

Store in original container.

Incompatible products:

None known.

Incompatible materials:

None known.

7.3. Specific end use(s):

See section 1.

SECTION 8: Exposure controls/Personal protection**8.1. Control parameters:****Ethanol (64-17-5)**

Switzerland	Local name	Ethanol
Switzerland	VME (mg/m ³)	960 mg/m ³
Switzerland	VME (ppm)	500 ppm
Switzerland	VLE (mg/m ³)	1920 mg/m ³
Switzerland	VLE (ppm)	1000 ppm
Switzerland	Remark (CH)	4x15

8.2. Exposure controls:

Personal protective equipment:

Avoid all unnecessary exposure.

Materials for protective clothing:

None necessary.

Hand protection:

In case of repeated or prolonged contact wear gloves. Solvent-resistant gloves

Eye protection:

Eye protection should only be necessary where liquid could be splashed or sprayed.

Skin and body protection:

Protective clothing not absolutely necessary

Respiratory protection:

No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties:**

Physical state:	Solid
Appearance:	Inert medium impregnated with: Solvent.
Colour:	Colourless.
Odour:	characteristic.
Odour threshold:	No data available
pH:	No data available
Relative evaporation rate (butylacetate=1):	No data available
Melting point:	No data available
Freezing point:	No data available

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Boiling point:	No data available
Flash point:	> 61 °C
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Flammability (solid, gas):	Non flammable
Vapour pressure:	No data available
Relative vapour density at 20 °C:	No data available
Relative density:	No data available
Solubility:	No data available
Log Pow:	No data available
Viscosity, kinematic:	No data available
Viscosity, dynamic:	No data available
Explosive properties:	No data available
Oxidising properties:	No data available
Explosive limits:	No data available

9.2. Other information:

None relevant

SECTION 10: Stability and reactivity

10.1. Reactivity:

No available information.

10.2. Chemical stability:

Not established

10.3. Possibility of hazardous reactions:

Not established

10.4. Conditions to avoid:

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials:

None known

10.6. Hazardous decomposition products:

fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects: Ethanol (64-17-5)

LD50 oral	10470 mg/kg bodyweight
LD50 dermal	15800 mg/kg bodyweight
LC50 inhalation rat (Dust/Mist - mg/l/4h)	> 99999 mg/m ³

Skin corrosion/irritation:	Not classified. Based on available data, the classification criteria are not met
Serious eye damage/irritation:	Not classified
Respiratory or skin sensitisation:	Not classified. Based on available data, the classification criteria are not met
Germ cell mutagenicity:	Not classified. Based on available data, the classification criteria are not met
Carcinogenicity:	Not classified. Based on available data, the classification criteria are not met
Reproductive toxicity:	Not classified. Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure):	Not classified. Based on available data, the classification criteria are not met
Specific target organ toxicity	

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(repeated exposure): Not classified. Based on available data, the classification criteria are not met

Aspiration hazard: Not classified. Based on available data, the classification criteria are not met

Potential adverse human health effects and symptoms: Based on available data, the classification criteria are not met.

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

Aquatic	Data	Test (Media)	Reference
Fish	LC50 (Pimephales promelas, 96h) > 14200 mg/l (Ethanol)	No info (FW)	UCLID
Waterflea	EC50 (waterflea, 48h) > 5012 mg/l (Propan-2-ol)	No info (FW)	UCLID
Algae	EC50 (Algae) 275 mg/l IC50 alga (72 h) mg/l	No info (FW)	UCLID

12.2. Persistence and degradability:

RK 321.001.018 CCS

Persistence and degradability: Not established

12.3. Bioaccumulative potential:

RK 321.001.018 CCS

Bioaccumulative potential: Not established

Ethanol (64-17-5): Low Pow -0,3

12.4. Mobility in soil:

No additional information available.

12.5. Results of PBT and vPvB assessment:

The ingredients are not considered PBT/vPvB according to criteria in Annex XIII.

No additional information available.

12.6. Other adverse effects:

Additional information: Avoid release to the environment

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

Waste disposal recommendations: Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials: Avoid release to the environment.

Napkins/cards evaporate after use and can be disposed with the household garbage or recycled with hard plastics.

If packages containing wet napkins/cards must be disposed.

SECTION 14: Transport information

14.1. UN-no.: Not regulated for transport

14.2. UN proper shipping name: Not applicable

14.3. Transport hazard class(es): Not applicable

14.4. Packing group: Not applicable

14.5. Environmental hazards: Not applicable.

14.6. Special precautions for user: Not submitted to ADR. Exempt from ADR/RID/IMDG/ICAO/IATA/ADN regulations.

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

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Napkins/cards are not dangerous goods.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:**

Must not be used by persons under 18 years of age.
 Contains no REACH substances with Annex XVII restrictions
 Contains no substance on the REACH candidate list
 Contains no REACH Annex XIV substances

15.2. Chemical Safety Assessment:

No CSR.

SECTION 16: Other information**Data source:**

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

R-phrases and hazard statement mentioned in section 2 and 3:

R11: Highly flammable
 R20/21/22 Harmful by inhalation, in contact with skin and if swallowed
 R36 Irritating to eyes
 R 36/38: Irritating to eyes & skin.
 H225: Highly flammable liquid and vapour.
 H302 Harmful if swallowed
 H312: Harmful in contact with skin.
 H315: Causes skin irritation.
 H319: Causes serious eye irritation.
 H332: Harmful if inhaled
 F: Highly flammable
 Xi: Irritant
 Xn: Harmful

Abbreviations:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
CMR	Carcinogenicity, mutagenicity and reproductive toxicity.
CSR	Chemical Safety Report
DNEL	Derived No-Effect Level
EC50	Effect Concentration 50 %
ECB	European Chemicals Bureau.
ECHA	European Chemicals Agency
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. = REACH Registration dossier from ECHA's homepage.
 IUCLID = International Uniform Chemical Database Information

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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 the task, be familiar with this Safety Data Sheet and have normal training in the use of personal protective equipment.

Changes since the previous edition:

All sections, according to 453/2010

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