

MATERIAL SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifiers Article

no. (manufacturer/supplier): 101
 Sales designation: CARDIP® Aqua+ ETA Cleaner 101

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

Relevant identified uses: Aqueous pre-cleaner with antistatic effect for cleaning and degreasing surfaces before application of CARDIP® Aqua+ PPS Pro Clear 5050. Can also be used for cleaning and degreasing before painting / foiling. The product is intended for professional use.

1.3 Details of the supplier providing the safety data sheet

Supplier: Colosol Coatings GmbH Tel.: +49 7066 - 96 59 400
 Buchäckerring 36 E-mail: lab@cardip.org
 74906 Bad Rappenau
 Germany

1.4 Emergency number:

24 hours emergency number (CHEMTREC) Switzerland: +(41) 435082011
 Germany: +(49) 6964 - 3508409 / 0800-1817059 Belgium: +(32) 28083237
 Austria: +(43) 13649237 Luxembourg: +(352) 20202416

SECTION 2: POTENTIAL HAZARDS

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP].

Hazard class	Hazard category	Danger notice
Flam. Liq.	2	H225: Highly flammable liquid and vapor.
Eye Irrit.	2	H319: Causes severe eye irritation.

2.2 Labeling elements

Labelling according to Regulation (EC) No 1272/2008 [CLP].

Hazard statements: Safety not applicable
 instructions: Signal words not applicable
 Additional information on the label: Danger



EUH210: Safety data sheet available on request. EUH225: Highly flammable liquid and vapor.
 EUH319: Causes severe eye irritation. May cause allergic reactions.

2.3 Other hazards:

none identified

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Chemical characterization: Mixtures

Regulation No. 1272/2008

Ethanol	Substance with specific conc. limits acc. to
Registration No. (REACH)	01-2119457610-43-XXX
Index	603-002-00-5
EINECS, ELINCS, NLP, EG	200-578-6
CAS	64-17-5
% range	45-48

SECTION 4: FIRST AID MEASURES

4.1 Description of the first aid measures

After inhalation:	Remove exposed person to fresh air if adverse effects are observed. Wash with soap and water. If
After skin contact:	skin irritation occurs: Seek medical advice/attention.
After eye contact:	Material that comes into contact with the eyes must be washed out immediately with water. If possible without difficulty, remove contact lenses.
After ingestion:	Treat symptoms. See a doctor.

4.2 Most important symptoms and effects, both acute and delayed

See section 11.

4.3 Indications for immediate medical help or special treatment

Hazards:	No data available. Treat
Treatment:	symptomatically.

SECTION 5: FIREFIGHTING MEASURES

General fire hazards: No information on unusual fire or explosion hazards.

5.1 Extinguishing

media Suitable Water spray jet, alcohol- resistant foam/CO2/dry extinguishing agent.

extinguishing media: Foam/CO2/dry extinguishing agent. Full water jet.

For security reasons unsuitable extinguishing agents:

5.2 Special hazards arising from the substance or mixture

In the event of fire, the following may be formed: Carbon dioxide, toxic gases, explosive vapor/air or gas/air mixtures.

The container may burst when heated.

5.3 Advice for fire fighting

Wear fully protective firefighting clothing including self-contained breathing apparatus, effective even in positive pressure, with full face shield,

CARDIP® AQUA+ ETA-CLEANER 101



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and coat, pants, gloves, and shoes.

SECTION 6: MEASURES IN CASE OF ACCIDENTAL RELEASE

6.1 Personal precautions, protective equipment and procedures to be used in case of emergency

Ventilate enclosed or other poorly ventilated areas where product has spilled. Personal protective equipment must be worn; see section "Exposure controls/protective equipment" for recommendations.

6.2 Environmental protection measures

Avoid release to the environment. Do not contaminate water supply or sewage system. Always notify the Environmental Protection Officer in the event of a large spill. Avoid further leakage or spillage if it can be done without danger.

6.3 Methods and material for retention and cleaning

Contain larger quantities of spilled material at a safe distance and dispose of later. Pick up the free liquid for recycling and/or disposal. The remains of a liquid can be absorbed with an inert material. Wash the area with soap and water.

6.4 Reference to other sections

See sections 8 and 13 for further information.

SECTION 7: HANDLING AND STORAGE

7.1 Protective measures for safe handling

Observe recognized industrial hygiene measures. Ensure adequate ventilation. Wear suitable personal protective equipment. Keep away from sources of ignition - Do not smoke.

Avoid contact with eyes and prolonged or repeated contact with skin. Do not inhale mists and vapors. Do not eat, drink or smoke while working. Stir well before use. Keep containers not in use closed. Minimize contact with air to reduce contamination by mold, fungus or other organisms that may cause decay or spoilage. Wash thoroughly after handling.

Maximum temperature for handling the material: 25 °C

7.2 Conditions for safe storage taking into account incompatibilities

Store away from incompatible materials. See Section 10 regarding incompatible materials. Do not store in open, unlabeled or mislabeled containers. Store in a well-ventilated area. Keep containers tightly closed. Protect from sunlight.

Maximum storage	35 °C
temperature: TRGS 510	3. flammable liquids

Storage instructions:

7.3 Specific end uses

No further relevant information available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTIVE EQUIPMENT

Additional notes on the design of technical installations: No further information, see section 7.

8.1 Parameters to be monitored

Occupational exposure limit values: Occupational exposure limits do not apply to any of the ingredients.

8.2 Exposure controls and monitoring

Appropriate engineering control devices: Process the product only in a well-ventilated environment. Provide adequate ventilation so that exposure limits are not exceeded. Mechanical ventilation system or local exhaust system may be required.

Individual protective measures, for example personal protective equipment

General Information: Please follow the guidelines below for recommended personal protective equipment (PPE) and refer to the relevant EN standard if necessary. Use prescribed personal protective equipment.

Respiratory protection: Ensure compliance with occupational exposure limits and/or other limits. For short-term or low-level exposure, use respiratory filter device; for intensive or prolonged exposure, use self-contained breathing apparatus. Use respiratory protection in case of insufficient ventilation. Filter A/P2

Hand protection: Preventive skin protection by using skin protectants is recommended. To avoid skin problems, the wearing of gloves should be reduced to the necessary extent. Before each new use of the glove, the tightness must be checked. The glove material must be impermeable and resistant to the product / substance / preparation. Selection of the glove material considering the breakthrough times, permeation rates and degradation.

Glove material: DIN EN 374
Butyl rubber Nitrile
rubber PVA gloves
Recommended material thickness: ≥ 0.7 mm
The selection of a suitable glove depends not only on the material, but also on other quality characteristics and varies from manufacturer to manufacturer. Since the product is a preparation of several substances, the resistance of glove materials cannot be calculated in advance and must therefore be checked before use.
Penetration time of the glove material Value for permeation: Level ≤ 6 (≥ 480 min) The exact penetration time must be obtained from the protective glove manufacturer and must be observed.

Eye Tightly sealed safety goggles according to DIN EN 166

protection: Use protective clothing.
Wearing a chemically resistant PPE/overalls is necessary to minimize physical impact.

Body

protection:

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on the basic physical and chemical properties

Appearance:

State of aggregation:	Liquid
color:	Colorless
Odor:	Neutral - after alcohol
Odor threshold:	There are no data available.
pH value at 20 °C: Melting point/Freezing point: Initial boiling point and boiling range:	7-9
Flash point:	About 0° C
Flammability (solid, gas):	> 35°C
Evaporation rate: Decomposition temperature: Auto-ignition temperature:	12°C c.c.
Explosive properties:	There are no data available.
Upper/lower flammability or explosion limits:	There are no data available.
Lower explosion limit:	There are no data available.
Upper explosion limit:	No data available.
Vapor pressure at 20 °C:	About 16 torr
Relative density:	0,90 (15,6 °C)
Vapor density:	< 1
Solubility in / Miscibility with water:	Completely soluble in water.
Viscosity:	<1.00 mPa.s (25 °C)
Explosive properties:	There are no data available.
Oxidizing properties: Volatile organic compounds content substances (VOC):	No data available. There are no data available.

Explosive properties:

Upper/lower flammability or explosion limits:

Lower explosion limit:	There are no data available.
Upper explosion limit:	No data available.
Vapor pressure at 20 °C:	About 16 torr
Relative density:	0,90 (15,6 °C)
Vapor density:	< 1
Solubility in / Miscibility with water:	Completely soluble in water.
Viscosity:	<1.00 mPa.s (25 °C)
Explosive properties:	There are no data available.
Oxidizing properties: Volatile organic compounds content substances (VOC):	No data available. There are no data available.

9.2 Other information

Bulk density:	Approximately 0.99 lb/gal (25 °C)
Percentage of solids.: Percentage of volatile components:	not determined.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

There are no data available.

10.2 Chemical stability

The material is stable under normal conditions.

10.3 Possibility of hazardous reactions

Does not occur.

10.4 Conditions to avoid

Heating, open flames, ignition sources, electrostatic charge.

10.5 Incompatible materials

Strong oxidizing agents. Strong acids.

10.6 Hazardous decomposition products

No decomposition when used as directed.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on probable routes of exposure:

There are no data available.

11.1 Information on toxicological effects

Acute toxicity:

Based on available data, the classification criteria are not met.

Ingestion:

May irritate the digestive tract.

ATEmix (estimated acute toxicity of mixture) > 2,000 mg/kg. Not

Skin contact:

classified for acute toxicity based on available data.

Inhalation:

Overexposure to fumes or mist may cause dizziness, headache, nausea and/or flu-like symptoms. Persons with sensitive respiratory tract (e.g. asthmatics) may react to the vapors. Not classified for acute toxicity based on available data.

Skin corrosion/irritation:

Prolonged or repeated skin contact may cause irritation. Pre-existing skin lesions may be aggravated by prolonged or repeated contact. Remarks: Not classified as a primary irritant to skin.

Primary irritant effect:

**Corrosion/irritation of the skin;
Serious eye damage/irritation:**

Comments:

Not classified as a primary irritant to the eye.

SECTION 11: TOXICOLOGICAL INFORMATION

Primary irritant effect:

Respiratory/skin sensitization: There are no data available.

Other effects: Persons with sensitive respiratory tract (e.g. asthmatics) may react to the vapors.

CMR effects (carcinogenic, mutagenic and toxic for reproduction):

Germ cell No data available. No

mutagenicity: data available. No data

Carcinogenicity: available.

Reproductive toxicity:

Specific target organ toxicity at single exposure: No data available.

pecific target organ toxicity with repeated exposure: No data available.

Aspiration hazard No data available.

SECTION 12: ENVIRONMENTAL DISCLOSURES

12.1 Toxicity

Aquatic toxicity: No data available.

12.2 Persistence and degradability No data available. No

12.3 Bioaccumulative potential data available.

12.4 Mobility in soil No data available.

12.5 Other adverse effects No data available.

SECTION 13: NOTES ON DISPOSAL

13.1 Waste treatment method

Proper disposal / product

Recommendation Handle, store, transport and dispose of in accordance with applicable federal, state/provincial and local regulations. Since empty containers contain product residues, follow the warning label even after the container has been emptied.

Uncleaned packaging: The container packaging may contain hazards. Dispose of
Recommendation in accordance with official regulations.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number UN 1170

14.2 UN proper shipping name

Land transport (ADR/RID):	Ethanol, solution
Sea transport (IMDG):	Ethanol, solution
Air transport (ICAO-TI / IATA-DGR):	Ethanol, solution



14.3 Transport hazard class 3

14.4 Packing group II

14.5 Environmental hazards None known.

14.6 Carriage in bulk according to Annex II of the MARPOL Convention and according to the IBC Code

Freight is carried as general cargo, therefore not applicable.

SECTION 15: LEGAL PROVISIONS

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

Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer:
None present or none present in regulated quantities.

REGULATION (EC) No. 850/2004 on persistent organic pollutants:
None present or none present in regulated quantities.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals:
None present or none present in regulated quantities.

Regulation (EC) No 1907/2006, REACH Article 59(1). Candidate list:
None present or none present in regulated quantities.

Regulation (EC) No 1907/2006, REACH Annex XIV List of Substances Subject to Authorization, as amended: None present or none present in regulated quantities.

Regulation (EC) No. 1907/2006 Annex XVII Restrictions on the manufacture, placing on the market and use of certain hazardous Substances, preparations and articles:

Chemical name	EC no.	Concentration
Ethyl alcohol	200-578-6	< 48,0%

Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work: None present or none present in regulated quantities.

Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding:
None present or none present in regulated quantities.

SECTION 15: LEGAL PROVISIONS

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

Directive 96/82/EC (Seveso III) on the control of major-accident hazards involving dangerous substances: None present or none present in regulated quantities.

REGULATION (EC) No 166/2006 concerning the establishment of a European Pollutant Release and Transfer Register, ANNEX II: Pollutants: None present or none present in regulated quantities.

Directive 98/24/EU on the protection of workers from the risks related to chemical agents at work: None present or none present in regulated quantities.

National regulations Water

hazard class (WGK): WGK 1: slightly hazardous to water.

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: OTHER DISCLOSURES

The information is based on the present state of our knowledge, but does not constitute a guarantee of product properties and does not establish a contractual legal relationship. The information in this safety data sheet complies with national and EU legislation. The product must not be used for any purpose other than that stated in section 1 without written permission. The user is responsible for compliance with all necessary legal requirements.

16.1 Relevant sentences

None known.

16.2 Waiver of rights / Disclaimer

This leaflet is based on intensive development work and many years of practical experience. The content does not express a contractual legal relationship but serves as a guide.

No warranty is given for correctness and completeness. The supplier is not liable for any damage caused by the use of or contact with the product. The processor/buyer is not released from checking the product for suitability for the intended application. In addition, our ABG apply.

16.3 Abbreviations and acronyms

ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road).
CAS	Chemicals Abstract Service
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
GefStoffV	Ordinance on Hazardous Substances (Germany)
GHS	Globally Harmonised System of Classification and Labelling of Chemicals
IATA	International Air Transport Association

SECTION 16: OTHER DISCLOSURES

16.3 Abbreviations and acronyms

ICAO	International Civil Aviation Organization
IMDG	International Maritime Code for Dangerous Goods
RID	Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
VOCV	Incentive tax on volatile organic compounds, Switzerland (Swiss Ordinance on volatile organic compounds)
VOC	Volatile Organic Compounds (USA, EU)

Further information:

Classification according to Regulation (EC) No 1272/2008 [CLP].

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