

| MATERIAL SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE COMPANY

1.1 Product identifiers Item no.

(manufacturer/supplier): Trade name: 5050
CARDIP® Aqua+ PPS Pro Clear 5050

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

Relevant identified uses: 1K water-based peelable special coating for coating painted and unpainted, solid (non-absorbent) surfaces. The product forms an elastic and peelable film coating when sprayed. The product is intended for commercial use.

1.3 Details of the supplier providing the safety data sheet

Supplier: Colosol Coatings GmbH
Buchäckerring 36
74906 Bad Rappenau
Germany
Tel.:
Email: lab@cardip.org

1.4 Emergency Germany: +49 (0) 7066 - 9659 - 400

SECTION 2: POSSIBLE HAZARDS

2.1 Classification of the substance or mixture

This product does not meet the classification requirements of current European legislation.

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

Not classified

2.2 Label elements**Labeling according to Regulation (EC) No. 1272/2008 [CLP]**

Hazard statements: Not applicable
Precautionary statements: Not applicable
Signal words: Not applicable
EUH210: Safety data sheet available on request. May cause allergic reactions.
Additional information on the label:
None identified

2.3 Other hazards:

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.2. Chemical characterization: Mixtures

COMPONENT / CAS No.	%	EC No.	REACH Reg. No.	Classification according to Regulation (EC) No. 1272/2008 (CLP)
1-methoxy-2-propanol 107-98-2	~1	203-539-1	01-2119457435-35	Flam. Liq. 3 (H226) STOT SE 3 (H336)

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

After inhalation:	Move the exposed person to fresh air if harmful 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. Remove contact lenses if possible without difficulty.
After swallowing:	Treat symptoms. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11.

4.3 Indications for immediate medical attention or special treatment

Hazards:	No data available. Treat
Treatment:	symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

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

5.1 Extinguishing media

Suitable extinguishing agents:	Carbon dioxide, powder, and foam extinguishing agents; water spray, water mist. Not determined.
Extinguishing media which must not be used for safety reasons:	

5.2 Special hazards arising from the substance or mixture

See Section 10 for further information. The product does not burn until the water has evaporated. The container may burst when heated.

5.3 Firefighting instructions

Wear fully protective fire-resistant clothing, including a self-contained breathing apparatus with full face mask that is effective even in positive pressure, as well as a coat, trousers, gloves, and shoes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment, and emergency procedures

Ventilate closed or poorly ventilated rooms where the product has leaked. Personal protective equipment must be worn; see section "Exposure control/protective equipment" for recommendations.

6.2. Environmental precautions

Avoid release into the environment. Do not contaminate the water supply or sewage system. In case of large spills, always notify the environmental protection officer. Avoid further leakage or spillage if this can be done without risk.

6.3 Methods and material for containment and cleaning

Contain larger quantities of spilled material at a safe distance and dispose of later. Collect the free liquid for recycling and/or disposal. The remains of a liquid can be absorbed with a non-reactive material. Wash the area with water and soap. The spilled liquid and the dried film are slippery. Use caution to avoid falls.

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.

Avoid contact with eyes and prolonged or repeated contact with skin. Do not breathe mist or vapors. Do not eat, drink, or smoke while working. Stir well before use. Keep containers closed when not in use. Contact with air should be kept to a minimum to reduce contamination by mold, fungi, or other organisms that can cause decomposition 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 for incompatible materials. Protect from freezing. Do not store in open, unlabeled, or mislabeled containers.

Maximum storage temperature: 35 °C

temperature: TRGS 510 Storage Not applicable.

instructions:

7.3. Specific end uses

No further relevant information available.



SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION EQUIPMENT

Additional information on the design of technical installations:

No further information, see Section 7.

8.1 Parameters to be monitored

Occupational exposure limits:

No occupational exposure limits apply to any of the components.

8.2 Exposure control and monitoring

Suitable technical control measures:

Only process the product in a well-ventilated area. Ensure adequate ventilation so that exposure limits are not exceeded. A 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 the required personal protective equipment.

Respiratory protection:

Ensure compliance with occupational exposure limits and/or other limits.
For short-term or low exposure, use a respirator; for intensive or prolonged exposure, use a self-contained breathing apparatus.
Use respiratory protection if ventilation is inadequate.
Filter A/P2

Hand protection:

Preventive skin protection through the use of skin protection agents is recommended. To avoid skin problems, the wearing of gloves should be reduced to the minimum necessary. Before each reuse of the glove, check for leaks. The glove material must be impermeable and resistant to the product/substance/preparation. Select the glove material taking into account 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 predicted in advance and must therefore be checked before use.
Penetration time of the glove material Permeation value: Levels 6 (≥ 480 min) The exact breakthrough time must be obtained from the protective glove manufacturer and observed.

Eye

Tight-fitting safety goggles in accordance with DIN EN 166

protection:

Wear protective clothing.
To minimize physical effects, it is necessary to wear chemically resistant PPE/overalls.

Body

protection:

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties Appearance:

Physical state:	Liquid
Color:	Clear - Opaque Mild,
Odor: Odor threshold:	characteristic
pH value at 20 °C: Melting	No data available. 7-9
point/freezing point: Initial boiling	Approximately 0° C
point and boiling range: Flash	Approximately
point:	100° C Not
Flammability (solid, gaseous):	applicable.
Evaporation rate: Decomposition	No data available.
temperature: Auto-ignition	< 1 n-Butyl acetate = e1
temperature:	No data available. No data available.
Explosive properties:	No data available.
Upper/lower flammability or explosion limits:	
Lower explosion limit:	No data available. No data
Upper explosion limit:	available. Approximately
Vapor pressure at 20 °C:	16 torr
Relative density:	1.18 (15.6 °C)
Vapor density:	< 1
Solubility in / miscibility with	Dispersible
water:	
Viscosity:	< 200 mPa.s (25 °C)
Explosive properties:	No data available. No data
Oxidizing properties:	available. No data
Volatile organic compound (VOC)	available.
content:	

9.2 Other

Bulk density:	Approximately 9.81 lb/gal (25 °C)
Percentage of solids:	Approximately 30% (weight percent)
Percentage of volatile components:	Approximately 70% (weight percent)

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

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

Do not freeze.

10.5 Incompatible materials

Strong oxidizing agents

10.6. Hazardous decomposition products

Thermal decomposition or combustion may result in the formation of smoke, carbon monoxide, carbon dioxide, nitrogen oxides, and other substances resulting from incomplete combustion. Burning or decomposition of dry solids may release irritating or toxic substances.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

No data available.

11.1 Information on toxicological effects

Acute toxicity:

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

Ingestion:

May irritate the digestive tract.

ATEmix (estimated acute toxicity of the mixture) > 10,000 mg/kg. Not

Skin contact:

classified for acute toxicity based on available data.

Inhalation:

Excessive exposure to vapors or mist may cause dizziness, headaches, nausea, and/or flu-like symptoms. People with sensitive respiratory systems (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 conditions may be aggravated by prolonged or repeated contact. Remarks: Not classified as a primary skin irritant.

Primary irritant effect:

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

Remarks:

Not classified as a primary eye irritant.

SECTION 11: TOXICOLOGICAL INFORMATION

Primary irritation:

Respiratory/skin sensitization:

No data available.

Other effects:

People with sensitive respiratory tracts (e.g., asthmatics) may react to the vapors.

CMR effects (carcinogenic, mutagenic, and reproductive toxicity):

Germ cell mutagenicity:

No data available. No

Carcinogenicity:

data available. No data

Reproductive toxicity:

available.

Specific target organ toxicity after single exposure:

No data available.

Specific target organ toxicity after repeated exposure:

No data available.

Aspiration hazard

No data available.

SECTION 12: ENVIRONMENTAL INFORMATION

12.1 Toxicity Aquatic

toxicity:

No data available.

12.2 Persistence and degradability

No data available. No

12.3 Bioaccumulation potential

data available.

12.4 Mobility in soil

No data available.

12.5 Other adverse effects

No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods Proper

disposal / product recommendation

Handling, storage, transport, and disposal must be carried out in accordance with applicable federal, state/provincial, and local regulations. Since empty containers may contain product residues, follow the warning label even after the container has been emptied.

Uncleaned packaging:

Recommendation

The container packaging may present hazards. Dispose of in accordance with official regulations.

SECTION 14: TRANSPORT INFORMATION

Land transport (ADR/RID):	Not a hazardous material.
Sea transport (IMDG):	Not dangerous goods.
Air transport (ICAO-TI / IATA-DGR):	Not classified as dangerous goods.

14.4 Packaging group

No dangerous goods. APEO FREE! No dangerous goods. APEO FREE!

14.5. Environmental hazards

None known.

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

None known.

SECTION 15: REGULATORY INFORMATION

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 on 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 available or none available in regulated quantities.

Regulation (EC) No. 1907/2006 Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles: Not applicable.

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 promote the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding at work:
None available or none available in regulated quantities.

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 on 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.

SECTION 15: REGULATORY INFORMATION

National regulations Water hazard

class (WGK):

WGK 1: slightly hazardous to water.

15.2 Substance safety assessment

A substance safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

The information is based on our current state of 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 specified in Chapter 1 without written approval. The user is responsible for complying with all necessary legal requirements.

16.1 Relevant phrases

None known.

16.2 Legal disclaimer / exclusion of liability

This data sheet is based on intensive development work and many years of practical experience. The content does not constitute a contractual legal relationship but serves as a guideline.

No guarantee is given for accuracy and completeness. The supplier is not liable for any damage caused by the use of or contact with the product. The processor/purchaser is not released from the obligation to check the product for suitability for the intended application. In addition, our General Terms and Conditions 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	EINECS
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
GefStoffV	Ordinance on Hazardous Substances (Germany)
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
IATA	International Air Transport Association

SECTION 16: OTHER INFORMATION

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	Swiss Ordinance on Volatile Organic Compounds
VOC	Volatile organic compounds (USA, EU)

Further information:

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

The information in this safety data sheet corresponds to our current state of knowledge and national and EU regulations. The product must not be used for any purpose other than that specified in Section 1 without written permission. It is always the responsibility of the user to take all necessary measures to comply with the requirements laid down in local regulations and laws. The information in this safety data sheet describes the safety requirements of our product and does not constitute a guarantee of product properties.