

# Safety Data Sheet

## CMR-413.W Antigrffiti Clear Coat

according to Regulation (EU) 2015/830

Last Revision: 02.06.20  Version: V-2020-002  
HR 1000

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### SECTION 1

#### Identification of the substance/mixture and of the company/undertaking

**1.1 Product identifier**

CMR-413.W

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

Relevant identified uses:  
Surface coating material

**1.3 Details of the supplier of the safety data sheet**

Manufacturer/Distributor	CMR Coatings GmbH
Address/POB	Wilhelmstr. 8
IVR/ZIP/Place	D-32602 Vlotho
E-Mail	<a href="mailto:info@cmr-coatings.de">info@cmr-coatings.de</a>
Telephone	+49 (0) 57 33 – 96 35 – 260
Fax	+49 (0) 57 33 – 96 35 – 263
Department of MSDS	<a href="mailto:info@cmr-coatings.de">info@cmr-coatings.de</a>

**1.4 Emergency telephone number**

+49 (0) 57 33 – 96 35 – 260

### SECTION 2 Hazards identification

**2.1 Classification of the substance or mixture**

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

For the full text of the hazard statements listed in this section, see section 16.

**2.2 Label elements**

none

Code: -

Signal word: -

**Hazard components for labelling**

none

**Hazard statements**

none

**Precautionary statements**

none

**Further hazard statements**

none

**Additional information for labelling**

EUH210 Safety data sheet available on request.

**2.3 Other hazards**

The results of the PBT and vPvB assessment can be found in subsection 12.5.

**SECTION 3 Composition/information on ingredients**

**3.1 Substances**

This product is a mixture.

**3.2 Mixtures**

Polyurethane resin mixture

**Composition / information on ingredients**

EC-No. CAS-No. INDEX-No.	REACH-No. Designation Classification	Portion
204-658-1 123-86-4 607-025-00-1	01-2119485493-29 <b>n-butyl acetate</b> Flam. Liq. 3 H226 / STOT SE 3 H336	5-7%
265-199-0 64742-95-6 649-356-00-4	01-2119455851-35 <b>Solvent naphtha (petroleum), light arom.</b> Flam. Liq. 3 H226 / STOT SE 3 H335 / Aquatic Chronic 2 H411 / Asp.Tox. 1 H304 / STOT SE 3 H336	2-2,5%
225-878-4 5131-66-8 603-052-00-8	01-2119475527-28-0001 <b>3-butoxypropan-2-ol</b> Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / Flam. Liq. 3 H226	2-2,5%
104376-75-2	<b>Aryl methyl phenyl polyglycol</b> Aquatic Chronic 3 H412	1-2%

The wording of the classification codes is in section 16.

## **SECTION 4 First aid measures**

### **4.1 Description of first aid measures**

<b>General advice</b>	In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.
<b>If inhaled</b>	Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.
<b>Skin contact</b>	Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.
<b>Eye contact</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.
<b>If swallowed</b>	If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

### **4.2 Most important symptoms and effects, both acute and delayed**

In all cases of doubt, or when symptoms persist, seek medical advice.

### **4.3 Indication of any immediate medical attention and special treatment needed**

First Aid, decontamination, treatment of symptoms.

## **SECTION 5 Firefighting measures**

### **5.1 Extinguishing media**

#### **Suitable extinguishing media**

Alcohol resistant foam, carbon dioxide, Powder, spray mist, (water).

#### **Unsuitable extinguishing media**

Strong water jet.

### **5.2 Special hazards arising from the substance or mixture**

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

### **5.3 Advice for firefighters**

Provide a conveniently located respiratory protective device. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

Treat runoff as hazardous.

## **SECTION 6 Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

### **6.2 Environmental precautions**

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

### **6.3 Methods and material for containment and cleaning up**

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see chapter 13). Clean using cleansingagents. Do not use solvents.

### **6.4 Reference to other sections**

Observe protective provisions (see chapter 7 and 8).

## **SECTION 7 Handling and storage**

### **7.1 Precautions for safe handling**

#### **Advices on safe handling**

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

#### **Precautions against fire and explosion:**

Vapours are heavier than air. Vapours form explosive mixtures with air.

### **7.2 Conditions for safe storage, including any incompatibilities**

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (TRGS 727)".

#### **Hints on joint storage**

Keep away from strongly acidic and alkaline materials as well as oxidizers.

**Further information on storage conditions**

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition.

Due to the content of organic solvents in the preparation:

Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

**Storage class**

(VCI concept for the joint storage of chemicals):

non-flammable liquids that cannot be assigned to any of the aforementioned storage classes.

**7.3 Specific end uses**

Observe technical data sheet. Observe instructions for use.

**SECTION 8**

**Exposure controls/personal protection**

**8.1 Control parameters**

**Components with workplace control parameters (MEL/OES)**

<b>n-butyl acetate</b>		
INDEX No. 607-025-00-1 / EC No. 204-658-1 / CAS No. 123-86-4		
TWA:	724 mg/m <sup>3</sup>	150 ppm
STEL:	966 mg/m <sup>3</sup>	200 ppm
Remark:		

<b>Solvent naphtha (petroleum), light arom.</b>		
INDEX No. 649-356-00-4 / EC No. 265-199-0 / CAS No. 64742-95-6		
WEL, TWA	500 mg/m <sup>2</sup>	
Remarks		(Aromatics)

**DNEL:**

none

**PNEC:**

none

## 8.2 Exposure controls

### Appropriate engineering controls

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

### Personal protective equipment

#### Respiratory protection

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Use only respiratory protection equipment with CE-symbol including four digit test number. Wear respiratory protection. Filter type: A / P2

#### Eye protection

Wear closely fitting protective glasses in case of splashes.

#### Hand protection

For prolonged or repeated handling the following gloves must be used:

**Material:** impermeable material

**Breakthrough time:**  $\geq 480$ min

**Glove thickness:**  $> 0,4$  mm

Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles EN ISO 374 Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

#### Body Protection

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

#### Protective Measures

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

#### Environmental exposure controls

Do not allow to enter into surface water or drains. See chapter 7. No additional measures necessary.

## 8.3 Environmental exposure controls

Prevent further leakage or spillage if safe to do so. Do not allow the product to enter waters. Discharge into the environment must be avoided.

## **SECTION 9 Physical and chemical properties**

### **9.1 Information on basic physical and chemical properties**

<b>Appearance:</b>		<b>Method/ Source:</b>	
Aggregate state:		liquid	
Colour:		white	
Odour:		characteristic	
Odour threshold:		Not applicable	
Melting point/freezing point:		Not applicable	
Initial boiling point/boiling range:		100 °C	water
Flash point:		Not applicable	
Flammability:		Not applicable	
Ignition temperature:		395 °C	DIN 51794 / DIN prEN 14522
Decomposition temperature:		Not applicable	
Oxidising properties:		Not applicable	
Explosive properties:		Not applicable	
Explosion limits:	lower	1,1 Vol-%	3-butoxypropan-2-ol
	upper	9 Vol-%	3-butoxypropan-2-ol
Water solubility:	(T = 20 °C)	partially soluble	
Vapour pressure:	(T = 20 °C)	8,6698 mbar	
Vapour density (air = 1):		Not applicable	
Partition coefficient (n-octanol/water):		see section 12	
Solids content		50-55 weight-%	
Density:	(T = 20 °C)	1,04 g/cm <sup>3</sup>	
pH value:	(T = 20 °C)	Not applicable	
Viscosity (6 mm DIN flow cup):	(T = 20 °C)	> 65 s	
Content of solvents:		Not available.	
Organic solvents:		approx. 10 weight-%	
Water:		35 weight-%	
Evaporation rate:		Not applicable	

### **9.2 Other information**

No data available.

## **SECTION 10 Stability and reactivity**

### **10.1 Reactivity**

No information available.

### **10.2 Chemical stability**

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

### 10.3 Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

### 10.4 Conditions to avoid

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7. Hazardous decomposition byproducts may form with exposure to high temperatures.

### 10.5 Incompatible materials

not applicable

### 10.6 Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

## **SECTION 11 Toxicological information**

Classification according to Regulation (EC) No 1272/2008 [CLP]  
No data on preparation itself available.

### 11.1 Information on toxicological effects

#### **Acute toxicity**

##### **Mixture**

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

##### **Components**

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

#### **Skin corrosion/irritation**

##### **Mixture**

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

##### **Components**

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

#### **Serious eye damage/irritation**

##### **Mixture**

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

##### **Components**

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

#### **Respiratory or skin sensitisation**

##### **Mixture**

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

##### **Components**

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



#### **Germ cell mutagenicity**

##### **Mixture**

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

##### **Components**

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

#### **Carcinogenicity**

##### **Mixture**

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

##### **Components**

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

#### **Reproductive toxicity**

##### **Mixture**

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

##### **Components**

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

#### **Specific Target Organ Toxicity - single exposure**

##### **Mixture**

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

##### **Components**

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

#### **Specific Target Organ Toxicity - repeated exposure**

##### **Mixture**

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

##### **Components**

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

#### **Aspiration hazard**

##### **Mixture**

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

##### **Components**

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

#### **Other information**

No data available.

## **11.2 Additional information**

### **Practical experience/human evidence**

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system.

Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases:

unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eyeirritation and reversible damage.

### **Overall Assessment on CMR properties**

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

### **Remark**

There is no information available on the preparation itself . The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified according to the toxicological dangers. See chapters 2 and 15 for details.

## **SECTION 12 Ecological information**

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

There is no information available on the preparation itself .

Do not allow to enter into surface water or drains.

### **12.1 Toxicity**

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

#### **Long-term Ecotoxicity**

Toxicological data are not available.

### **12.2 Persistence and degradability**

Toxicological data are not available.

### **12.3 Bioaccumulative potential**

Toxicological data are not available.

#### **Bioconcentration factor (BCF)**

Toxicological data are not available.

### **12.4 Mobility in soil**

Toxicological data are not available.

### **12.5 Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### **12.6 Other adverse effects**

No information available.

## **SECTION 13 Disposal considerations**

### **13.1 Waste treatment methods**

#### **Appropriate disposal / Product**

##### **Recommendation**

Do not allow to enter into surface water or drains. Handle contaminated packages in the same way as the substance itself. This material and its container must be disposed of in a safe way.

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

**List of proposed waste codes/waste designations in accordance with EWC**

080111\* Waste paint and varnish containing organic solvents or other dangerous substances

\*Hazardous waste according to Directive 2008/98/EC (waste framework directive).

**Appropriate disposal / Package**

**Recommendation**

Non-contaminated packages may be recycled.

Vessels not properly emptied are special waste.

**SECTION 14 Transport information**

**14.1 UN number**

not applicable

**14.2 Proper shipping name**

**Land transport (ADR/RID):** not applicable

**Sea transport (IMDG):** not applicable

**Air transport (ICAO-TI / IATA-DGR):** not applicable

**14.3 Transport hazard class(es)**

not applicable

**14.4 Packing group**

not applicable

**14.5 Environmental hazards**

**Labelling of environmentally dangerous substances**

ADR/RID / IMDG / IATA not applicable

Marine Pollutant not applicable

**14.6 Special precautions for user**

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.

Advices on safe handling: see parts 6 - 8

**Additional information**

**Land transport (ADR/RID)**

tunnel restriction code -

**Sea transport (IMDG)**

EmS-No. not applicable

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

not applicable

**SECTION 15 Regulatory information**

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

**EU legislation**

Directive 2010/75/EU on industrial emissions

VOC-value (in g/L):

145

**National regulations**

**Restrictions of occupation**

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

**15.2 Chemical safety assessment**

For the following substances of this preparation a chemical safety assessment has been carried out:

EC-No. CAS-No. INDEX-No.	REACH-No. Designation
204-658-1 123-86-4	01-2119485493-29 <b>n-butyl acetate</b>
225-878-4 5131-66-8	01-2119475527-28-0001 <b>3-butoxypropan-2-ol</b>

## **SECTION 16 Other information**

### **The wording of the classification codes of section 3**

Flam. Liq. 3 / H226	Flammable liquids	Flammable liquid and vapour.
STOT SE 3 / H336	STOT-single exposure	May cause drowsiness or dizziness.
STOT SE 3 / H335	STOT-single exposure	May cause respiratory irritation.
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.
Asp. Tox. 1 / H304	Aspiration hazard	May be fatal if swallowed and enters airways.
Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.
Eye Irrit. 2 / H319	Serious eye damage/ eye irritation	Causes serious eye irritation.
Aquatic Chronic 3 / H412	Hazardous to the aquatic environment	Harmful to aquatic life with long lasting effects.

The classification codes only apply to the pure substances and do not declare necessarily the classification of the mixture. The classification and the labelling of the mixture are specified in section 2.

### **Abbreviations**

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
OEL	Occupational Exposure Limit Value
BLV	Biological Limit Value
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	Carcinogenic, Mutagenic and Reprotoxic
DIN	German Institute for Standardization / German industrial standard
DNEL	Derived No-Effect Level
EAKV	European Waste Catalogue Directive
EC	Effective Concentration
EC	European Community
EN	European Standard
IATA-DGR	International Air Transport Association – Dangerous Goods Regulations
IBC	Code International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO-TI	International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG	Code International Maritime Code for Dangerous Goods
ISO	International Organization for Standardization
LC	Lethal Concentration
LD	Lethal Dose
MARPOL	Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OECD	Organisation for Economic Cooperation and Development
PBT	persistent, bioaccumulative, toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
UN	United Nations

VOC Volatile Organic Compounds  
vPvB very persistent and very bioaccumulative

### **Additional information**

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in chapter 1.

It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.

We exclude each liability for damages, that can appear in improper intercourse or contact with these chemicals.

This security data sheet replaces all previous editions. Validly from edition date.

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