

# COO-VAR®

## PAINTS, PRIMERS AND SPECIALISED COATINGS

### SAFETY DATA SHEET

#### 138/W224 - GUARD-COAT HARDENER FOR GREEN

According to Regulation (EC) No 1907/2006, Annex II, as amended. Commission Regulation (EU) No 2015/830 of 28 May 2015.

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

**Product name** 138/W224 - GUARD-COAT HARDENER FOR GREEN  
**Product number** 138/W224/15 - hardener for green  
**UFI** UFI: VFVP-72V7-0000-75K5

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

**Identified uses** HARDENER FOR TWO COMPONENT FLOOR COATING

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

<b>Supplier</b>	COO-VAR Lockwood Street Hull HU2 0HN UK +441482328053 (T) +441482219266 (F) info@coo-var.co.uk	TEAL & MACKRILL EU B.V. Queens Towers Deflandlaan 1 1062 EA Amsterdam The Netherlands +31 (0)208 004828 (T) +441482219266 (F) info@coo-var.co.uk
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**Contact person** Technical Department -, 08.30 - 16.30 hrs Mon - Thurs, 08.30 - 15.00 hrs Fri, as above

##### 1.4. Emergency telephone number

**Emergency telephone** +44 (0) 1482 328053 Coo-Var (08.30 - 16.30 hrs Mon - Thurs, 08.30 - 15.00 hrs Fri)  
**SDS No.** 11276

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

###### Classification (EC 1272/2008)

**Physical hazards** Not Classified  
**Health hazards** Eye Dam. 1 - H318  
**Environmental hazards** Not Classified

**Human health** The product contains a small amount of sensitising substance. May cause skin sensitisation or allergic reactions in sensitive individuals.

**Physicochemical** When handled correctly, undamaged units represent no danger.

##### 2.2. Label elements

**138/W224 - GUARD-COAT HARDENER FOR GREEN****Hazard pictograms****Signal word**

Danger

**Hazard statements**

H318 Causes serious eye damage.

**Precautionary statements**

P102 Keep out of reach of children.  
 P101 If medical advice is needed, have product container or label at hand.  
 P264 Wash skin thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
 P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P313 Get medical advice/ attention.  
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
 P501 Dispose of contents/ container in accordance with national regulations.

**Contains**

Teta, polymer with Bisphenol A diglycidyl Ether, Formaldehyde, MXDA, sulphamic acid and Ethoxylated nonyl Phenol

**2.3. Other hazards**

This product does not contain any substances classified as PBT or vPvB.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures**

<b>Teta, polymer with Bisphenol A diglycidyl Ether, Formaldehyde, MXDA, sulphamic acid and Ethoxylated nonyl Phenol</b>		<b>10-30%</b>
CAS number: 238080-05-2		
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>	
Acute Tox. 4 - H302	Xn;R22. Xi;R41.	
Eye Dam. 1 - H318		
<b>Chromic Oxide</b>		<b>10-30%</b>
CAS number: 1308-38-9	EC number: 215-160-9	REACH registration number: 01-211943395-39-xxxx
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>	
Not Classified	-	

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<b>Barium Sulphate</b>		<b>1-5%</b>
CAS number: 7727-43-7	EC number: 231-784-4	REACH registration number: 01-2119491274-35-0001
<b>Classification</b> Not Classified	<b>Classification (67/548/EEC or 1999/45/EC)</b> -	

  

<b>Calcium Magnesium Silicate</b>		<b>1-5%</b>
CAS number: 14807-96-6	EC number: 238-877-9	
<b>Classification</b> Not Classified	<b>Classification (67/548/EEC or 1999/45/EC)</b> -	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>Inhalation</b>	Remove affected person from source of contamination. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Give plenty of water to drink. Get medical attention immediately.
<b>Skin contact</b>	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.
<b>Eye contact</b>	Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse.

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

<b>Ingestion</b>	Harmful if swallowed.
<b>Eye contact</b>	Causes serious eye damage. May cause permanent damage if eye is not immediately irrigated.

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

<b>Notes for the doctor</b>	Treat symptomatically.
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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.

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

<b>Hazardous combustion products</b>	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.
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#### 5.3. Advice for firefighters

<b>Special protective equipment for firefighters</b>	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.
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### SECTION 6: Accidental release measures

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

**Personal precautions** Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation.

#### 6.2. Environmental precautions

**Environmental precautions** Avoid discharge into drains or watercourses or onto the ground. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

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

**Methods for cleaning up** Absorb with inert, damp, non-combustible material, then flush area with water. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13.

#### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8. For waste disposal, see Section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

**Usage precautions** Avoid inhalation of vapours/spray and contact with skin and eyes. Provide adequate ventilation.

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

**Storage precautions** Store in tightly-closed, original container in a dry, cool and well-ventilated place.

**Storage class** Miscellaneous hazardous material storage.

#### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

### SECTION 8: Exposure controls/Personal protection

#### 8.1. Control parameters

##### Occupational exposure limits

##### Chromic Oxide

Long-term exposure limit (8-hour TWA): 0.5 mg/m<sup>3</sup>

##### Barium Sulphate

Long-term exposure limit (8-hour TWA): 10 mg/m<sup>3</sup> inhalable dust

Long-term exposure limit (8-hour TWA): 4 mg/m<sup>3</sup> respirable dust

##### Calcium Magnesium Silicate

Long-term exposure limit (8-hour TWA): WEL 1 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit.

**Ingredient comments** No exposure limits known for ingredient(s).

#### Chromic Oxide (CAS: 1308-38-9)

**Ingredient comments** WEL = Workplace Exposure Limits

#### 8.2. Exposure controls

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### Protective equipment



### Appropriate engineering controls

Provide adequate ventilation. Mechanical ventilation or local exhaust ventilation may be required. Ensure operatives are trained to minimise exposure.

### Personal protection

Unprotected persons should be kept away from treated areas.

### Eye/face protection

The following protection should be worn: Wear eye protection. Tight-fitting safety glasses. Full face visor or shield. Workers should not contact their eyes or skin with hands contaminated with the material.

### Hand protection

To protect hands from chemicals, gloves should comply with European Standards EN388 and 374. As a general principle, exposure should be managed by means other than the provision of protective gloves. Manufacturers' performance data suggest that the optimum glove for use should be: Nitrile rubber. Thickness:  $\geq 0.3$  mm Neoprene. Thickness:  $\geq 0.4$  mm or Butyl rubber. Thickness:  $\geq 0.3$  mm Permeation breakthrough time according to EN374 - class: (1-6) e.g. minimum 480 mins. Caution: The performance of gloves under actual working conditions can be significantly affected by many factors and the information provided according to EN374 may not accord with what is achieved in practice. We recommend that expert professional advice is sought that takes into account of the work processes and working environment applicable for each task where gloves are to be worn.

### Other skin and body protection

Wear suitable protective clothing as protection against splashing or contamination.

### Hygiene measures

Wash at the end of each work shift and before eating, smoking and using the toilet.

### Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn. Full face mask respirators with replaceable filter cartridges should comply with European Standard EN136. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140.

## SECTION 9: Physical and chemical properties

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

Appearance	Viscous liquid. Liquid
Colour	Yellowish
Odour	Ammonia.
Odour threshold	Not determined.
pH	pH (concentrated solution): 8.9
Initial boiling point and range	>100°C @ 760 mm Hg
Flash point	°C Does not flash.
Evaporation rate	Not determined.
Evaporation factor	Not determined.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	Data lacking.
Other flammability	Not applicable.

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Vapour density	Not determined.
Relative density	1.27 @ @ 20 C°C
Solubility(ies)	Soluble in water.
Auto-ignition temperature	Not determined.
Decomposition Temperature	Not determined.
Viscosity	Kinematic viscosity > 20.5 mm <sup>2</sup> /s.
Explosive properties	Not applicable.
Oxidising properties	Data lacking.
<b>9.2. Other information</b>	
Other information	No information required.
Volatile organic compound	EU: (cat A/J): 140 g/l 2010. This product contains a maximum VOC content of <1 g/litre.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

**Reactivity** No test data specifically related to reactivity available for this product or its ingredients.

#### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures and when used as recommended.

#### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** The following materials may react violently with the product: Peroxides.

#### 10.4. Conditions to avoid

**Conditions to avoid** Avoid excessive heat for prolonged periods of time.

#### 10.5. Incompatible materials

**Materials to avoid** Acids. sodium hypochlorite Peroxides.

#### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Acute toxicity - oral

**ATE oral (mg/kg)** 2,279.48

##### Skin corrosion/irritation

**Animal data** Data lacking.

##### Serious eye damage/irritation

**Serious eye damage/irritation** Causes serious eye damage.

##### Respiratory sensitisation

**Respiratory sensitisation** Data lacking.

##### Skin sensitisation

**Skin sensitisation** Data lacking.

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### Germ cell mutagenicity

**Genotoxicity - in vitro** Data lacking.

### Carcinogenicity

**Carcinogenicity** Data lacking.

### Reproductive toxicity

**Reproductive toxicity - fertility** Data lacking.

### Specific target organ toxicity - single exposure

**STOT - single exposure** Data lacking.

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Data lacking.

### Aspiration hazard

**Aspiration hazard** Based on available data the classification criteria are not met.

### **Inhalation**

Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Coughing.

### **Ingestion**

Irritating. Symptoms following overexposure may include the following: Nausea, vomiting. Stomach pain.

### **Skin contact**

Irritating to skin. May cause sensitisation or allergic reactions in sensitive individuals.

### **Eye contact**

Risk of serious damage to eyes. Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain.

### **Route of exposure**

Inhalation Skin absorption. Ingestion. Skin and/or eye contact.

### Toxicological information on ingredients.

#### 3-(Polyoxyethylene)propylheptamethyltrisiloxane

##### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 5,050.0

**Species** Rat

**ATE oral (mg/kg)** 5,050.0

##### Acute toxicity - dermal

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 2,050.0

**Species** Rabbit

**ATE dermal (mg/kg)** 2,050.0

##### Acute toxicity - inhalation

**Acute toxicity inhalation (LC<sub>50</sub> gases ppmV)** 5,921.05

**Species** Rat

**Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l)** 14.47

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<b>Species</b>	Rat
<b>Acute toxicity inhalation (LC<sub>50</sub> dust/mist mg/l)</b>	1.97
<b>Species</b>	Rat
<b>ATE inhalation (gases ppm)</b>	5,921.05
<b>ATE inhalation (vapours mg/l)</b>	14.47
<b>ATE inhalation (dusts/mists mg/l)</b>	1.97

### SECTION 12: Ecological information

**Ecotoxicity** The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

#### 12.1. Toxicity

##### Acute aquatic toxicity

**Acute toxicity - fish** No information available.

#### 12.2. Persistence and degradability

**Persistence and degradability** There are no data on the degradability of this product.

#### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

#### 12.4. Mobility in soil

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

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

#### 12.6. Other adverse effects

**Other adverse effects** Not determined.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

**General information** Waste is classified as hazardous waste. Do not puncture or incinerate even when empty.

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

**Waste class** Used containers, drained and/or rigorously scraped out and containing dry residues of the supplied coating, are categorised as non-hazardous waste, with code 15 01 02 (plastic packaging) or 15 01 04 (metal packaging). Wear protective clothing during disposal operations. If disposal is by waste contractor, make sure that he has sufficient information and that waste containers are properly labelled. Ideally this component should be mixed with the appropriate resin base and allowed to react fully producing a solid non hazardous waste.

### SECTION 14: Transport information



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**General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

### 14.1. UN number

Not applicable.

### 14.2. UN proper shipping name

Not applicable.

### 14.3. Transport hazard class(es)

No transport warning sign required.

### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

**Environmentally hazardous substance/marine pollutant**

No.

### 14.6. Special precautions for user

Not applicable.

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

**Transport in bulk according to** Not applicable.

**Annex II of MARPOL 73/78  
and the IBC Code**

## SECTION 15: Regulatory information

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

#### **EU legislation**

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).  
Commission Regulation (EU) No 2015/830 of 28 May 2015.  
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 (as amended).

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

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<b>Abbreviations and acronyms used in the safety data sheet</b>	<p>ATE: Acute Toxicity Estimate.  CAS: Chemical Abstracts Service.  DNEL: Derived No Effect Level.  GHS: Globally Harmonized System.  ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.  IMDG: International Maritime Dangerous Goods.  LD<sub>50</sub>: Lethal Dose to 50% of a test population (Median Lethal Dose).  PBT: Persistent, Bioaccumulative and Toxic substance.  PNEC: Predicted No Effect Concentration.  REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.  RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.  SVHC: Substances of Very High Concern.  vPvB: Very Persistent and Very Bioaccumulative.  EC<sub>50</sub>: 50% of maximal Effective Concentration.</p>
<b>Classification abbreviations and acronyms</b>	<p>Acute Tox. = Acute toxicity  Aquatic Acute = Hazardous to the aquatic environment (acute)  Aquatic Chronic = Hazardous to the aquatic environment (chronic)  Eye Dam. = Serious eye damage  Eye Irrit. = Eye irritation  Resp. Sens. = Respiratory sensitisation  Repr. = Reproductive toxicity  Skin Corr. = Skin corrosion  Skin Sens. = Skin sensitisation  STOT RE = Specific target organ toxicity-repeated exposure  STOT SE = Specific target organ toxicity-single exposure</p>
<b>Revision comments</b>	<p>Issued in new format for Reach compliance in accordance with EC 1272/2008 Issued in accordance with Annex II to REACH, as amended by Commission Regulation (EU) No. 2015/830 Addition of EU supplier information Unique Formula Identifier (UFI) added</p>
<b>Issued by</b>	Technical Dept. (N.O.)
<b>Revision date</b>	11/11/2021
<b>Revision</b>	5.0
<b>Supersedes date</b>	16/11/2018
<b>SDS number</b>	11276
<b>SDS status</b>	Approved.
<b>Hazard statements in full</b>	<p>H302 Harmful if swallowed.  H318 Causes serious eye damage.</p>
<b>Signature</b>	Initials .....

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.