

# COO-VAR®

Paints, Primers and Specialist Coatings

## SAFETY DATA SHEET 205/WB101 - 2 PACK ANTI-GRAFFITI COATING - HARDENER

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

#### 1.1. Product identifier

Product name 205/WB101 - 2 PACK ANTI-GRAFFITI COATING - HARDENER

Product number 205/WB101/T - HARDENER

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

Identified uses HARDENER FOR TWO COMPONENT ANTI-GRAFFITI COATING

Uses advised against NOT SUITABLE FOR FOR USE IN HOMEWORKER (DIY) APPLICATIONS

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

##### Supplier

COO-VAR  
Lockwood Street  
Hull  
HU2 0HN  
+44 (0) 1482 328053(T)  
+44 (0) 1482 219266(F)  
info@coo-var.co.uk

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 (08.30 - 16.30 hrs Mon - Thurs, 08.30 - 15.00 hrs Fri)

### SECTION 2: Hazards identification

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

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

Physical hazards Not Classified

Health hazards Skin Sens. 1 - H317 Acute Tox. 4 - H332 STOT SE 3 - H335

Environmental hazards Not Classified

Classification (67/548/EEC or 1999/45/EC) Xn;R20. Xi;R37. R43.

Human health Contains non-volatile isocyanate. Heating may generate vapours which irritate the respiratory system. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

#### 2.2. Label elements

##### Pictogram



Signal word Warning

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<b>Hazard statements</b>	H317 May cause an allergic skin reaction. H332 Harmful if inhaled. H335 May cause respiratory irritation.
<b>Precautionary statements</b>	EUH204 Contains isocyanates. May produce an allergic reaction. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P501 Dispose of contents/ container to ...
<b>Contains</b>	Hexamethylene diisocyanate oligomers, Isocyanurate, Hexamethylene diisocyanate, oligomers
<b>Supplementary precautionary statements</b>	P261 Avoid breathing vapour/ spray. P272 Contaminated work clothing should not be allowed out of the workplace. P302+P352 IF ON SKIN: Wash with plenty of water. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312 Call a POISON CENTER/ doctor if you feel unwell. P333+P313 If skin irritation or rash occurs: Get medical advice/ attention. P363 Wash contaminated clothing before reuse. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up. P321 Specific treatment (see medical advice on this label).

### 2.3. Other hazards

#### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

<b>Hexamethylene diisocyanate oligomers, Isocyanurate</b>		<b>30-60%</b>
CAS number: 28182-81-2	EC number: 931-274-8	REACH registration number: 01-2119485796-17-0002
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>	
Acute Tox. 4 - H332	Xn;R20. Xi;R37. R43.	
Skin Sens. 1 - H317		
STOT SE 3 - H335		
<b>Hexamethylene diisocyanate, oligomers</b>		<b>30-60%</b>
CAS number: 28182-81-2	EC number: 500-060-2	
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>	
Skin Sens. 1 - H317	R43.	

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<b>HEXAMETHYLENE-DI-ISOCYANATE</b>			<b>&lt;1%</b>
CAS number: 822-06-0	EC number: 212-485-8	REACH registration number: 01-2119457571-37-0000	
<b>Classification</b> Acute Tox. 4 - H302 Acute Tox. 1 - H330 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Resp. Sens. 1 - H334 Skin Sens. 1 - H317 STOT SE 3 - H335		<b>Classification (67/548/EEC or 1999/45/EC)</b> T;R23 R42/43 Xi;R36/37/38	

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>General information</b>	Remove soiled, soaked clothing immediately. Remove affected person from source of contamination.
<b>Inhalation</b>	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues. Show this sheet to the doctor
<b>Ingestion</b>	Do not induce vomiting. Do not give anything to drink Rinse nose, mouth and throat with water.
<b>Skin contact</b>	Immediately remove contaminated clothing. Wash skin thoroughly with soap and water. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.
<b>Eye contact</b>	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing. Show this Safety Data Sheet to the medical personnel.

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

<b>General information</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Inhalation</b>	Irritation of nose, throat and airway.
<b>Ingestion</b>	No specific symptoms known.
<b>Skin contact</b>	Skin irritation.
<b>Eye contact</b>	Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain.

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

<b>Notes for the doctor</b>	No specific recommendations. If in doubt, get medical attention promptly.
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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Extinguish with foam, carbon dioxide, dry powder or water fog.
<b>Unsuitable extinguishing media</b>	Do not use water, if avoidable.

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

**Specific hazards** Combustible material. Toxic gases or vapours.

### 5.3. Advice for firefighters

**Protective actions during firefighting** Keep up-wind to avoid fumes. Containers close to fire should be removed or cooled with water. Do not allow water to contact any leaked material.

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## SECTION 6: Accidental release measures

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

**Personal precautions** Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate.

### 6.2. Environmental precautions

**Environmental precautions** Contain spillages using bunding. Avoid the spillage or runoff entering drains, sewers or watercourses.

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

**Methods for cleaning up** Avoid the spillage or runoff entering drains, sewers or watercourses. Absorb in vermiculite, dry sand or earth and place into containers. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13. Flush contaminated area with plenty of water.

### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8. Collect and dispose of spillage as indicated in Section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Mechanical ventilation or local exhaust ventilation may be required. Avoid inhalation of vapours. Avoid spilling. Avoid contact with skin and eyes. Avoid contact with water or humidity. Comply with instructions for use (refer to technical sheet). Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. The Manual Handling Operations Regulations may apply to the handling of containers of this product. To assist employers, the following method of calculating the weight for any pack size is given. Take the pack size volume in litres and multiply this figure by the specific gravity value given in section 9. This will give the net weight of the coating in kilograms. Allowance will then have to be made for the immediate packaging to give an approximate gross weight.

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

**Storage precautions** Store in closed original container at temperatures between 5°C and 25°C. Keep container tightly closed. Keep containers upright. Store away from the following materials: Oxidising materials. Alkalis. Acids.

### 7.3. Specific end use(s)

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

**Usage description** Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible.

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### SECTION 8: Exposure Controls/personal protection

#### 8.1. Control parameters

##### Occupational exposure limits

##### Hexamethylene diisocyanate oligomers, Isocyanurate

Long-term exposure limit (8-hour TWA): WEL 0.02 ppm Sen

Short-term exposure limit (15-minute): WEL 0.07 ppm Sen  
as NCO

##### Hexamethylene diisocyanate, oligomers

Long-term exposure limit (8-hour TWA): WEL 0.02 ppm Sen

Short-term exposure limit (15-minute): WEL 0.07 ppm Sen

##### HEXAMETHYLENE-DI-ISOCYANATE

Long-term exposure limit (8-hour TWA): WEL 0,02 mg/m<sup>3</sup>

Sen

Short-term exposure limit (15-minute): WEL 0,07 mg/m<sup>3</sup>

as NCO

WEL = Workplace Exposure Limit

Sen = Capable of causing occupational asthma.

##### Hexamethylene diisocyanate oligomers, Isocyanurate (CAS: 28182-81-2)

##### DNEL

Industry - Inhalation; Short term local effects: 1 mg/m<sup>3</sup>

Industry - Inhalation; Long term local effects: 0.5 mg/m<sup>3</sup>

##### PNEC

- STP; 38.28 mg/l

- Intermittent release; 1.27 mg/l

- Marine water; 0.0127 mg/l

- Sediment; 266700 mg/kg

- Soil; 53200 mg/kg

#### 8.2. Exposure controls

##### Protective equipment



##### Appropriate engineering controls

No specific ventilation requirements. This product must not be handled in a confined space without adequate ventilation.

##### Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses.

##### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. It is recommended that gloves are made of the following material: Nitrile rubber. Barrier cream applied before work may make it easier to clean the skin after exposure, but does not prevent absorption through the skin.

##### Other skin and body protection

Wear suitable protective clothing as protection against splashing or contamination.

##### Hygiene measures

No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products.

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**Respiratory protection** No specific recommendations. Respiratory protection may be required if excessive airborne contamination occurs.

### SECTION 9: Physical and Chemical Properties

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

**Appearance** Clear, yellowish liquid.

**Colour** Light (or pale).

**Odour** Slight.

**Initial boiling point and range** Not measurable (owing to decomposition at > 150C)°C @

**Flash point** > 120C°OC (Open cup).

**Vapour pressure** Hexamethylene-1,6-diisocyanate = 0.014 mbar @ °C

**Relative density** approx. 1.14 @ @ 20°C

**Solubility(ies)** Miscible with water

**Viscosity** approx. 1200 DIN 53019/1 mPas @ 23°C

#### 9.2. Other information

**Volatility** zero

**Volatile organic compound** This product contains a maximum VOC content of 0 g/litre.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

**Reactivity** The following materials may react with the product: Alcohols, glycols. Amines. Bases Protic solvents Water and aqueous solutions with great release of CO<sub>2</sub>, and hence risk of a pressure build-up in confined areas, and forms an insoluble solid precipitate.

#### 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** Not determined.

#### 10.4. Conditions to avoid

**Conditions to avoid** Avoid contact with water.

#### 10.5. Incompatible materials

**Materials to avoid** Water, steam, water mixtures.

#### 10.6. Hazardous decomposition products

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

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

**Toxicological effects** No data recorded.

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<b>General information</b>	The product contains small quantities of isocyanate. May cause respiratory allergy. May cause respiratory system irritation.
<b>Inhalation</b>	Vapours may irritate throat/respiratory system. A single exposure may cause the following adverse effects: Coughing. Difficulty in breathing. May cause sensitisation by inhalation.
<b>Ingestion</b>	No harmful effects expected from quantities likely to be ingested by accident.
<b>Skin contact</b>	May cause sensitisation by skin contact.
<b>Eye contact</b>	May cause temporary eye irritation.
<b>Acute and chronic health hazards</b>	Frequent inhalation of vapours, may cause respiratory allergy.
<b>Route of entry</b>	Inhalation Skin absorption. Ingestion. Skin and/or eye contact.
<b>Medical considerations</b>	Skin disorders and allergies.
<b>Toxicological information</b>	

### SECTION 12: Ecological Information

**Ecotoxicity** The product is not expected to be toxic to aquatic organisms.

#### 12.1. Toxicity

#### 12.2. Persistence and degradability

**Persistence and degradability** The product is not expected to be biodegradable.

#### 12.3. Bioaccumulative potential

**Bioaccumulative potential** The product is not bioaccumulating.

#### 12.4. Mobility in soil

**Mobility** The product hardens to a solid immobile substance.

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

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

#### 12.6. Other adverse effects

**Other adverse effects** Not determined.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

**General information** Avoid the spillage or runoff entering drains, sewers or watercourses. Waste is classified as hazardous waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

**Disposal methods** Empty containers may be disposed of after neutralising any product remaining on the walls of the container with a mixture of water, ammonia and liquid soap.

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**Waste class** When this material, in its liquid state, as supplied, becomes a waste, it is categorised as hazardous waste, with EWC code: 08 05 01 (WASTE ISOCYANATES). Part-used containers, and not drained and/or rigorously scraped out containers, are categorised as hazardous waste, with EWC code 08 05 01 (WASTE ISOCYANATES). Ideally this component should be mixed with the appropriate resin base and allowed to react fully producing a solid non hazardous waste. Transferring some, ready to use, mixed Base/Activator to the Activator package and mixing again should ensure that any Activator residue will fully react and harden. The drained and rigorously scraped out container can then be categorised as non-hazardous waste with code 15 01 02(plastic packaging) or 15 01 04 (metal packaging). If mixed with other wastes, the above waste code may not be applicable.

### SECTION 14: Transport information

**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

No information required.

**Proper shipping name (ADR/RID)** PAINT OR PAINT RELATED MATERIAL

**Proper shipping name (IMDG)** PAINT OR PAINT RELATED MATERIAL

**Proper shipping name (ICAO)** PAINT OR PAINT RELATED MATERIAL

**Proper shipping name (ADN)** PAINT OR PAINT RELATED MATERIAL

#### 14.3. Transport hazard class(es)

No information required.

#### 14.4. Packing group

No information required.

#### 14.5. Environmental hazards

**Environmentally hazardous substance/marine pollutant**

No.

#### 14.6. Special precautions for user

No information required.

#### 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

**National regulations** The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).



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<b>EU legislation</b>	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). 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).
<b>Guidance</b>	Workplace Exposure Limits EH40. CHIP for everyone HSG228. Safety Data Sheets for Substances and Preparations. Approved Classification and Labelling Guide (Sixth edition) L131. Dangerous Substances and Explosive Atmospheres Regulations 2002 [L138]

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

### SECTION 16: Other information

<b>General information</b>	Only trained personnel should use this material.
<b>Revision comments</b>	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. 453/2010 Update for CLP labelling.
<b>Issued by</b>	Technical Dept. (P.E.)
<b>Revision date</b>	15/05/2017
<b>Revision</b>	6
<b>Supersedes date</b>	14/01/2013
<b>SDS number</b>	10753
<b>SDS status</b>	Approved.
<b>Signature</b>	Initials _____
<b>Risk phrases in full</b>	R20 Harmful by inhalation. R23 Toxic by inhalation. R36/37/38 Irritating to eyes, respiratory system and skin. R37 Irritating to respiratory system. R42/43 May cause sensitisation by inhalation and skin contact. R43 May cause sensitisation by skin contact.
<b>Hazard statements in full</b>	H302 Harmful if swallowed. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H330 Fatal if inhaled. H332 Harmful if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation.

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.