

## Centrecoat R186 Black Limestone Restorer

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

#### 1.1. Product identifier

**Product name:** Centrecoat R186 Black Limestone Restorer  
**REACH registered number(s):** BLEND OR MIXTURE EXEMPT FROM REACH REGISTRATION  
**Product code:** R186

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

**Use of substance / mixture:** Enhancer/ sealer for slate and limestone

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

- Name of Supplier: Promain UK Limited
- Address of Supplier: Promain House  
Pierson Court Hitchin,  
Hertfordshire SG4 0TY
- Telephone: 01462 421333
- Email: info@promain.co.uk

#### 1.4. Emergency telephone number

- Emergency Telephone: 01462 421333 (available during office hours)

### Section 2: Hazards identification

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

**Classification under CLP:** Eye Irrit. 2: H319; Flam. Liq. 3: H226  
**Most important adverse effects:** Flammable liquid and vapour. Causes serious eye irritation.

#### 2.2. Label elements

**Label elements:**

**Hazard statements:** H226: Flammable liquid and vapour.  
H319: Causes serious eye irritation.

**Hazard pictograms:** GHS02: Flame  
GHS07: Exclamation mark



**Signal words:** Warning

**Precautionary statements:** P102: Keep out of reach of children.  
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P240: Ground and bond container and receiving equipment.  
P233: Keep container tightly closed.  
P241: Use explosion-proof electrical/ventilating/lighting/... equipment.  
P243: Take action to prevent static discharges.  
P242: Use non-sparking tools.  
P262: Do not get in eyes, on skin, or on clothing.  
P264: Wash hands thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331+P310: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.. Immediately call a POISON CENTER or doctor.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water .

P332+P313: If skin irritation occurs: Get medical advice/attention.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice/attention.

P403+P235: Store in a well-ventilated place. Keep cool.

P501: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards

**Other hazards:** The product hydrolyses under formation of methanol (CAS 67-56-1). Methanol is classified concerning both physical and health hazards. The hydrolysis rate and consequently the relevance for the hazard profile of the product is strongly dependant on the specific conditions.

**PBT:** This product is not identified as a PBT/VPvB substance.

## Section 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous ingredients:

TITANIUM TETRABUTANOLATE - REACH registered number(s): 01-2119967425-33

EINECS	CAS	PBT / WEL	CLP Classification	Percent
-	5593-70-4	-	STOT SE 3: H335; STOT SE 3: H336; Eye Dam. 1: H318; Flam. Liq. 3: H226; Skin Irrit. 2: H315	0.9-5%

METHANOL - REACH registered number(s): 01-2119433307-44

200-659-6	67-56-1	-	Flam. Liq. 2: H225; Acute Tox. 3: H331; Acute Tox. 3: H311; Acute Tox. 3: H301; STOT SE 1: H370	<0.5%
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## Section 4: First aid measures

### 4.1. Description of first aid measures

**Skin contact:** Remove contaminated clothing. After contact with skin, wash immediately with plenty of soap and water. Get medical attention promptly if symptoms (irritation or blistering) occur after washing.

**Eye contact:** Remove contact lenses if present and easy to do. Continue to rinse for at least 15 minutes. Get medical attention if symptoms are severe or persist after washing.

**Ingestion:** Do not induce vomiting. Provided the patient is conscious, wash out mouth with water and give 200 - 300 ml (half a pint) of water to drink. Obtain immediate medical attention.

**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious and breathing is OK, place in the recovery position. Give artificial respiration or Oxygen if necessary. Get prompt medical attention.

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

**Skin contact:** There may be irritation and redness at the site of contact.

**Eye contact:** There may be irritation and redness. The eyes may water profusely.

**Ingestion:** There may be soreness and redness of the mouth and throat.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

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

**Immediate / special treatment:** Methanol (CAS 67-56-1) is readily absorbed at all exposure routes. Methanol may cause irritation of the mucosa, as well as nausea, vomiting, headaches, vertigo and visual disorders, including blindness (irreversible damage to the optic nerve), acidosis, spasms, narcosis and coma. There may be a delay in the onset of these effects after exposure. Further toxicology information in section 11 must be observed.

## Section 5: Fire-fighting measures

### 5.1. Extinguishing media

**Extinguishing media:** Alcohol resistant foam. Water mist. Carbon dioxide. Dry chemical powder. DO NOT USE WATER JET.

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

**Exposure hazards:** Risk of hazardous gases/fumes in the event of fire. Exposure to combustion products may be a health hazard. In combustion emits toxic fumes.

### 5.3. Advice for fire-fighters

**Advice for fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

## Section 6: Accidental release measures

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

**Personal precautions:** If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid. Avoid inhalation of vapours and contact with skin and eyes. Eliminate all ignition sources. Follow precautions for safe handling described in this safety data sheet. Wear protective clothing as described in Section 8 of this safety data sheet. Wash thoroughly after dealing with a spillage.

### 6.2. Environmental precautions

**Environmental precautions:** Do not allow to enter drains, sewers or watercourses. Absorb onto earth or sand and remove to safe place. Transfer to a container for disposal or recovery. Inform the Environmental Agency if substance leaks into surface waters, sewerage or ground.

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

**Clean-up procedures:** Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Do not use equipment in clean-up procedure which may produce sparks.

### 6.4. Reference to other sections

**Reference to other sections:** Wear protective clothing as described in Section 8 of this safety data sheet. See Section 11 for additional information on health hazards. Collect and dispose of spillages as indicated in Section 13.

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

**Handling requirements:** Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air. Smoking is forbidden. Use non-sparking tools.

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

**Storage conditions:** Store in a cool, well ventilated area. Keep container tightly closed. Keep away from sources of ignition. Prevent the build up of electrostatic charge in the immediate area. Ensure lighting and electrical equipment are not a source of ignition. Protect from moisture.

**Suitable packaging:** Must only be kept in original packaging.

### 7.3. Specific end use(s)

**Specific end use(s):** Surface coating

## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

**Hazardous ingredients:**

METHANOL

**Workplace exposure limits:**

**Respirable dust:**

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
IE	260 mg/m3	-	-	-

### DNEL/PNEC Values

**Hazardous ingredients:**

**TITANIUM TETRABUTANOLATE**

Type	Exposure	Value	Population	Effect
DNEL	Inhalation - Long Term	127mg/m <sup>3</sup>	Workers	Systemic
DNEL	Inhalation - Long Term	38mg/m <sup>3</sup>	Consumers	Systemic
DNEL	Oral - Long Term	3.75mk/kg bw/day	Consumers	Systemic
DNEL	Dermal - Long Term	37.5mg/kg bw/day	-	Systemic
PNEC	Fresh water	0.08mg/l	-	-
PNEC	Marine water	0.008mg/l	-	-
PNEC	Fresh water sediments	0.0687mg/kg dry mass	-	-
PNEC	Marine sediments	0.0069mg/kg dry mass	-	-
PNEC	Intermittent release	2.25mg/l	-	-
PNEC	Sewage Treatment Plant	65mg/l	-	-
PNEC	Soil (agricultural)	0.168mg/kg dry mass	-	-

**METHANOL**

Type	Exposure	Value	Population	Effect
DNEL	Dermal - long term	40mg/kg/day	Workers	-
DNEL	Inhalation - Long term	260mg/m <sup>3</sup>	Workers	-
DNEL	Dermal - Short term	40mg/kg/day	Workers	-
DNEL	Inhalation - Short term	260 mg/m <sup>3</sup>	Workers	-
DNEL	Dermal - Long term	8 mg/kg/day	Consumers	-
DNEL	Inhalation - Long term	50 mg/m <sup>3</sup>	Consumers	-
DNEL	Dermal - Short term	8 mg/kg/day	Consumers	-
DNEL	Dermal - Short term	50 mg/m <sup>3</sup>	Consumers	-
DNEL	Oral - Short term	8 mg/kg/day	Consumers	-

**8.2. Exposure controls**

**Engineering measures:** Ensure there is sufficient ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition.

**Respiratory protection:** Self-contained breathing apparatus must be available in case of emergency.

**Hand protection:** Gloves should comply with European Standard EN374. It is recommended gloves are made of the following material: Gloves are required at all times when handling the material.

Protective gloves made of Butyl Rubber, thickness > 0.5 mm, breakthrough time >480 mins

Protective gloves made of Nitrile Rubber, thickness > 0.4 mm, breakthrough time 10 - 30 mins Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Check during use that the gloves are still retaining their protective properties.

**Eye protection:** Tightly fitting safety goggles. Ensure eye bath is to hand.

**Skin protection:** Protective clothing.

**Environmental:** Prevent material from entering surface waters, drains or sewers and soil.

**Section 9: Physical and chemical properties**

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

**State:** Liquid

**Colour:** Colourless

**Odour:** Pleasant

**Evaporation rate:** Moderate

**Oxidising:** No data available.

**Solubility in water:** Reacts with water.

**Viscosity:** Non-viscous

**Boiling point/range°C:** 180  
**Flammability limits %: lower:** No data available.  
**Flash point°C:** 40  
**Autoflammability°C:** No data available.  
**Relative density:** 1.03  
**VOC g/l:** No data available.

**Melting point/range°C:** No data available.  
**upper:** No data available.  
**Part.coeff. n-octanol/water:** No data available.  
**Vapour pressure:** No data available.  
**pH:** N/A

## 9.2. Other information

**Other information:** Solubility in water. Hydrolytic decomposition occurs. Explosion limits for released methanol : 5.5 - 44%(V).pH Value: Product displays neutral reaction.

## Section 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity:** Stable under recommended transport or storage conditions.

### 10.2. Chemical stability

**Chemical stability:** Stable under normal conditions. Stable at room temperature.

### 10.3. Possibility of hazardous reactions

**Hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions.

### 10.4. Conditions to avoid

**Conditions to avoid:** Heat. Moist air. Hot surfaces. Sources of ignition. Flames.

### 10.5. Incompatible materials

**Materials to avoid:** Water. Basic substances and acids. Reaction causes the formation of : Methanol.

### 10.6. Hazardous decomposition products

**Haz. decomp. products:** By hydrolysis: Methanol. Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150°C (302 °F) through oxidation.

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

**Hazardous ingredients:**

**METHANOL**

IVN	RAT	LD50	2131	mg/kg
ORL	MUS	LD50	7300	mg/kg
ORL	RAT	LD50	5628	mg/kg

**Relevant hazards for product:**

Hazard	Route	Basis
Serious eye damage/irritation	OPT	Hazardous: calculated

### Symptoms / routes of exposure

**Skin contact:** There may be irritation and redness at the site of contact.

**Eye contact:** There may be irritation and redness. The eyes may water profusely.

**Ingestion:** There may be soreness and redness of the mouth and throat.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

**Other information:** Hydrolysis product/impurity: Methanol (CAS 67-56-1) is readily and rapidly absorbed at all exposure routes and is toxic by all routes. Methanol may cause irritation of the mucosa, as well as nausea, vomiting, headaches, vertigo and visual disorders including blindness (irreversible damage to the optic nerve), acidosis, spasms, narcosis and coma. There may be a delay in the onset of these effects after exposure.

## Section 12: Ecological information

### 12.1. Toxicity

**Ecotoxicity values:** No data available.

### 12.2. Persistence and degradability

**Persistence and degradability:** Contact with water liberates methanol and silanol - and/or siloxanol-compounds. Silicone content: biologically not degradable. Elimination by absorption to activated sludge. The hydrolysis product (Methanol) is readily biologically degradable.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential:** No bioaccumulation potential.

### 12.4. Mobility in soil

**Mobility:** Silicone content: Absorbed by floating particles. Separation by sedimentation.

### 12.5. Results of PBT and vPvB assessment

**PBT identification:** This product is not identified as a PBT/vPvB substance.

### 12.6. Other adverse effects

**Other adverse effects:** No data available.

## Section 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal operations:** Transfer to a suitable container and arrange for collection by specialised disposal company.

**Disposal of packaging:** Dispose of waste and residues in accordance with local authority requirements. Confirm disposal procedures with environmental engineer and local regulations. Do not allow runoff to sewer, waterway or ground. Contact specialist disposal companies.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

## Section 14: Transport information

### 14.1. UN number

**UN number:** N/A

### 14.2. UN proper shipping name

**Shipping name:** N/A  
(N/A)

### 14.3. Transport hazard class(es)

### 14.4. Packing group

**Packing group:** N/A

### 14.5. Environmental hazards

**Environmentally hazardous:** No

**Marine pollutant:** No

### 14.6. Special precautions for user

**Special precautions:** No special precautions.

**Tunnel code:** N/A

## Section 15: Regulatory information

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

**Specific regulations:** Not applicable.

### 15.2. Chemical Safety Assessment

**Chemical safety assessment:** A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

## Section 16: Other information

### Other information

**Other information:** according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

\* indicates text in the SDS which has changed since the last revision.

**Phrases used in s.2 and s.3:** H225: Highly flammable liquid and vapour.

H226: Flammable liquid and vapour.

H301: Toxic if swallowed.

H311: Toxic in contact with skin.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H319: Causes serious eye irritation.

H331: Toxic if inhaled.

H335: May cause respiratory irritation.

H336: May cause drowsiness or dizziness.

H370: Causes damage to organs.

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.