

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

1.1. Product identifier

Product name COLAS 5 (BASE COMPONENT)

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

Identified uses Polyester resin-based mortar - resin component

1.3. Details of the supplier of the safety data sheet

Supplier Colas Ltd
Wallage Lane
Rowfant
Crawley
West Sussex RH10 4NF

Telephone number: +44 1342 711000
Fax: +44 1342 711199
info@colas.co.uk
<http://www.colas.co.uk>

1.4. Emergency telephone number Tel: +44 1342 718346

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Flam. Liq. 3 - H226
Health hazards Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Repr. 2 - H361d STOT RE 1 - H372
Environmental hazards Not Classified

2.2. Label elements

Pictogram



Signal word Danger

Hazard statements
H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H361d Suspected of damaging the unborn child.
H372 Causes damage to organs (Ears) through prolonged or repeated exposure.

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Health & Safety Data Sheet for: COLAS 5 (BASE COMPONENT)

Data Sheet No: 125

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Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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

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

P501 Dispose of contents/ container in accordance with national regulations.

P241 Use explosion-proof electrical/ ventilating /lighting/.../ equipment.

P260 Do not breathe vapours.

Contains UNSATURATED POLYESTER RESIN IN STYRENE

2.3. Other hazards

SECTION 3: Composition/Information on Ingredients

3.2. Mixtures

UNSATURATED POLYESTER RESIN IN STYRENE	60-100%
CAS number: 100-42-5	
Classification	
Flam. Liq. 3 - H226	
Acute Tox. 4 - H332	
Skin Irrit. 2 - H315	
Eye Irrit. 2 - H319	
Repr. 2 - H361d	
STOT RE 1 - H372	

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

Ingestion DO NOT induce vomiting. Get medical attention immediately.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water.

Eye contact Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Seek medical attention and bring along these instructions.

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

Inhalation Harmful if inhaled. Irritating to respiratory system.

Skin contact The product is strongly irritating to eyes and skin.

Eye contact The product is strongly irritating to eyes and skin.

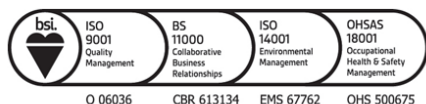
4.3. Indication of any immediate medical attention and special treatment needed

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Use alcohol-resistant foam, carbon dioxide or dry powder to extinguish.

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Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards The product is flammable.
 Hazardous combustion products When heated, toxic and corrosive vapours/gases may be formed.

5.3. Advice for firefighters

Protective actions during firefighting Fight fire with normal precautions from a reasonable distance.
 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 No action shall be taken without appropriate training or involving any personal risk. Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautions Do not discharge into drains, water courses or onto the ground. Contain spillage with sand, earth or other suitable non-combustible material.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up No smoking, sparks, flames or other sources of ignition near spillage. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Wear protective clothing as described in Section 8 of this safety data sheet.
 Advice on general occupational hygiene Wash at the end of each work shift and before eating, smoking and using the toilet.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry and cool place.
 Storage class Flammable liquid storage.

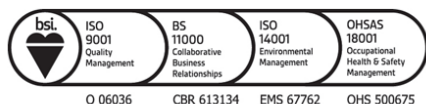
7.3. Specific end use(s)

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

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Occupational exposure limits

UNSATURATED POLYESTER RESIN IN STYRENE

Long-term exposure limit (8-hour TWA): WEL 100 ppm
 Short-term exposure limit (15-minute): WEL 250 ppm
 Long-term exposure limit (8-hour TWA): WEL 20ppm (Ireland)
 Short-term exposure limit (15-minute): WEL 40ppm (Ireland)
 WEL = Workplace Exposure Limit

UNSATURATED POLYESTER RESIN IN STYRENE (CAS: 100-42-5)

Ingredient comments Provide good ventilation and local exhaustion in working area Due to the hazardous nature of ingredients, exposure should be minimal.

8.2. Exposure controls

Protective equipment



Appropriate engineering controls	As this product contains ingredients with exposure limits, process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapour or mist.
Eye/face protection	Wear eye protection.
Hand protection	Wear protective gloves.
Other skin and body protection	Avoid contact with skin.
Hygiene measures	Wash at the end of each work shift and before eating, smoking and using the toilet.
Respiratory protection	Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.
Environmental exposure controls	Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

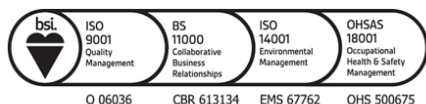
Appearance	Liquid.
Odour	Aromatic.
Initial boiling point and range	>145 C at 760mm Hg
Flash point	31C
Upper/lower flammability or explosive limits	1.1% to 6.1%
Auto-ignition temperature	490C

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

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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 strongly with the product: Peroxides.

10.4. Conditions to avoid

Conditions to avoid Keep away from heat, sparks and open flame.

10.5. Incompatible materials

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 - Inhalation

ATE inhalation (gases ppm) 4,500.0

ATE Inhalation (vapours mg/l) 11.0

ATE Inhalation (dusts/mlsts mg/l) 1.5

General information Extensive use of the product in areas with inadequate ventilation may result in the accumulation of hazardous vapour concentrations.

Inhalation The liquid may be irritating to eyes, respiratory system and skin. May cause nausea, headache, dizziness and intoxication.

Skin contact The product is strongly irritating to eyes and skin.

Eye contact The product is strongly irritating to eyes and skin.

Target organs Ears

SECTION 12: Ecological information

12.1. Toxicity

12.2. Persistence and degradability

Persistence and degradability The product is biodegradable.

12.3. Bioaccumulative potential

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product is not identified as a PBT/vPvB substance

12.6. Other adverse effects

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information This material and its container must be disposed of as hazardous waste.
 Disposal methods Dispose of contents/container in accordance with national regulations.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 1866
 UN No. (IMDG) 1866
 UN No. (ICAO) 1866
 UN No. (ADN) 1866

14.2. UN proper shipping name

Proper shipping name (ADR/RID) RESIN SOLUTION (CONTAINS UNSATURATED POLYESTER RESIN IN STYRENE)
 Proper shipping name (IMDG) RESIN SOLUTION (CONTAINS UNSATURATED POLYESTER RESIN IN STYRENE)
 Proper shipping name (ICAO) RESIN SOLUTION (CONTAINS UNSATURATED POLYESTER RESIN IN STYRENE)
 Proper shipping name (ADN) RESIN SOLUTION (CONTAINS UNSATURATED POLYESTER RESIN IN STYRENE)

14.3. Transport hazard class(es)

ADR/RID class 3
 ADR/RID classification code F1
 ADR/RID label 3
 IMDG class 3
 ICAO class/division 3
 ADN class 3

Transport labels



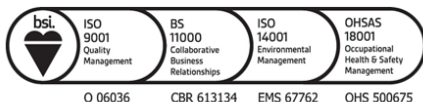
14.4. Packing group

ADR/RID packing group III
 IMDG packing group III
 ADN packing group III
 ICAO packing group III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant
 No.

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14.6. Special precautions for user

EmS	F-E, S-E
ADR transport category	3
Emergency Action Code	•3Y
Hazard Identification Number (ADR/RID)	30
Tunnel restriction code	(D/E)

14.7. Transport in bulk according to Annex II of MARPOL 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 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). 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).
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15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Hazard statements in full	H226 Flammable liquid and vapour. H315 Causes skin irritation. H319 Causes serious eye irritation. H332 Harmful if inhaled. H361d Suspected of damaging the unborn child. H372 Causes damage to organs (Ears) through prolonged or repeated exposure.
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