

Health & Safety Data Sheet for: C-JOINT RANGE OF BRIDGE JOINT BINDERS



UNITED KINGDOM

Data Sheet No: 91

Revision: 28/06/19

Replaces: 25/06/19

SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2015/830)

SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name : C-JOINT RANGE OF BRIDGE JOINT BINDERS

Products code : C-J TROPICAL, C-J CONTINENTAL, C-J CONTINENTAL 2, C-J TEMPERATE, C-J TR MG

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

For use in the C-Joint asphaltic plug joint system.

1.3. Details of the supplier of the safety data sheet

Registered company name : COLAS LIMITED

Address : Wallage Lane, Rowfant, Crawley, West Sussex RH10 4NF UK

Telephone : + 44 1342711000 Fax : + 44 1342 711199

info@colas.co.uk

http://www.colas.co.uk

1.4. Emergency telephone number : + 44 1342718346

Association/Organisation :

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

May produce an allergic reaction (EUH208).

Hazardous to the aquatic environment - Chronic hazard, Category 3 (Aquatic Chronic 3, H412).

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

2.2. Label elements

In compliance with EC regulation No. 1272/2008 and its amendments.

Additional labeling :

EUH208

Contains FATTY ACIDS C18 UNSAT, REACTION PRODUCTS WITH PENTAETHYLENEHEXAMINE. May produce an allergic reaction.

Hazard statements :

H412

Harmful to aquatic life with long lasting effects.

Precautionary statements - Prevention :

P273

Avoid release to the environment.

Precautionary statements - Disposal :

P501

Dispose of contents/container to an approved waste disposal plant.

2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) $\geq 0.1\%$ published by the European CHemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

Contact with hot material may cause thermal burns.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

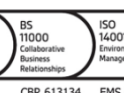
3.2. Mixtures

Composition :

Bitumen, polymer, aggregate, fillers, crumb rubber and additives

| Identification | Note | % |
|---|-----------------------|---------------------|
| CAS: 8052-42-4 EC: 232-490-9 REACH: 01-2119480172-44 BITUMEN | (EC) 1272/2008 [1] | 50 \leq x % < 100 |

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| | | | |
|---|---|--|-------------|
| CAS: 1224966-13-5 EC: 629-732-4 REACH: 01-2119492546-27-0003 FATTY ACIDS C18 UNSAT, REACTION PRODUCTS WITH PENTAETHYLENEHEXAMINE | GHS05, GHS09, GHS07 Dgr Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Acute 1, H400 M Acute = 1 Aquatic Chronic 1, H410 M Chronic = 1 | | 0 ≤ x % < 1 |
|---|---|--|-------------|

Information on ingredients :

[1] Substance for which maximum workplace exposure limits are available.

SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

4.1. Description of first aid measures**In the event of exposure by inhalation :**

In the event of an allergic reaction, seek medical attention.

In case of massive inhalation, bring the person to fresh air.

If the problem persists, see a doctor.

In the event of splashes or contact with eyes :

Wash immediately with copious amounts of water, keeping eyelids apart for at least 15 minutes and consult a specialist.

In the event of splashes or contact with skin :

In the event of an allergic reaction, seek medical attention.

If molten material comes into contact with the skin, immerse immediately in cold running water for 10 minutes. Do NOT attempt to remove material from skin. Obtain medical attention.

Seek medical advice.

In the event of swallowing :

Seek medical attention, showing the label.

Ensure that the airway is not obstructed and obtain medical advice.

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

No data available.

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

No data available.

SECTION 5 : FIREFIGHTING MEASURES**5.1. Extinguishing media****Suitable methods of extinction**

In the event of a fire, use :

- foam
- powder
- carbon dioxide (CO₂)
- dry sand

Unsuitable methods of extinction

In the event of a fire, do not use :

- water jet

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

5.3. Advice for firefighters

No data available.

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Loushers Lane, Wilderspool, Warrington,
Cheshire WA4 6RZ Tel: 01925 632616

SECTION 6 : ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures**

Consult the safety measures listed under headings 7 and 8.

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Prevent any material from entering drains or waterways.

6.3. Methods and material for containment and cleaning up

Shut off leak if without risk. Contain leaking liquid with sand, earth or other suitable material. Allow material to set solid.

- recovery : contain the spread of the product, allow to solidify and recover; spread sand on concerned surfaces if necessary
- elimination : recover all wastes and dispose in compliance with current regulations.

6.4. Reference to other sections

No data available.

SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

7.1. Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Mechanical ventilation and exhaust ventilation

Do NOT exceed maximum recommended temperature (200°C).

Fire prevention :

Prevent access by unauthorised personnel.

Recommended equipment and procedures :

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Prohibited equipment and procedures :

No smoking, eating or drinking in areas where the mixture is used.

7.2. Conditions for safe storage, including any incompatibilities

Store at temperatures below 50°C, to avoid deformation and under cover to avoid water contamination.

Keep the container away from dampness

Packaging

Always keep in packaging made of an identical material to the original.

7.3. Specific end use(s)

No data available.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters****Occupational exposure limits :**

- UK / WEL (Workplace exposure limits, EH40/2005, 2011) :

| CAS | TWA : | STEL : | Ceiling : | Definition : | Criteria : |
|-----------|------------------------------|-------------------------------|-----------|--------------|------------|
| 8052-42-4 | - ppm 5 mg/m ³ | - ppm 10 mg/m ³ | | | |

8.2. Exposure controls**Personal protection measures, such as personal protective equipment**

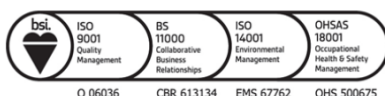
Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

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Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- Eye / face protection

Avoid contact with eyes.

Before handling powders or dust emission, wear mask goggles in accordance with standard EN166.

Safety helmet with face screen and neck protection in case of risk of splashing.

- Hand protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Recommended properties :

- Impervious gloves in accordance with standard EN374

Gloves anti-heat for the liquefied product (EN 407, level 2).

- Body protection

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

If necessary. Boots. hydrocarbon-proof clothing.

- Respiratory protection

Insulated breathing apparatus must be worn if ventilation is not sufficient.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

General information :

Physical state : Paste.

Important health, safety and environmental information

pH : Not relevant.

Boiling point/boiling range : Not relevant.

Flash point interval : Not relevant.

Vapour pressure (50°C) : Not relevant.

Density : > 1

Water solubility : Insoluble.

Melting point/melting range : Not relevant.

Self-ignition temperature : Not relevant.

Decomposition point/decomposition range : Not relevant.

9.2. Other information

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

Aspect :

- odour : neutral

- physical state : solid at 20°C

viscous liquid at elevated temperatures

- colour : dark

Density at 15°C 1.0g/ml (approx)

SECTION 10 : STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

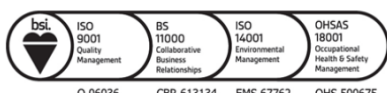
10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Contamination with water. Overheating.

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10.5. Incompatible materials

Keep away from :
Solvents

10.6. Hazardous decomposition products

The thermal decomposition may release/form :

- carbon monoxide (CO)
- carbon dioxide (CO₂)
- hydrogen sulphide (H₂S)

SECTION 11 : TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects**

No data available.

11.1.1. Substances**Acute toxicity :**

BITUME (CAS: 8052-42-4)

Oral route :

LD50 > 5000 mg/kg
OECD Guideline 401 (Acute Oral Toxicity)
Species : Rat (recommended by the CLP)

Dermal route :

LD50 > 2000 mg/kg
OECD Guideline 402 (Acute Dermal Toxicity)
Species : Rabbit (recommended by the CLP)

Inhalation route (n/a) :

LC50 > 94.4
OECD Guideline 403 (Acute Inhalation Toxicity)
Species : Rat (recommended by the CLP)

Carcinogenicity :

BITUME (CAS: 8052-42-4)

Carcinogenicity Test :

Negative.
No carcinogenic effect.

Reproductive toxicant :

BITUME (CAS: 8052-42-4)

Study on development :

OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Species : Rat

Specific target organ systemic toxicity - repeated exposure :

BITUME (CAS: 8052-42-4)

Dermal route :

Duration of exposure : 28 days
C = 200 mg/kg bodyweight/day
OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)
Species : Rabbit (recommended by CLP)

Inhalation route :

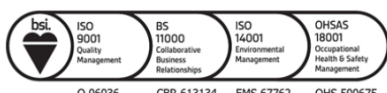
Duration of exposure : 90 days
C = 103.9
Species : Rat (recommended by CLP)

11.1.2. Mixture**Respiratory or skin sensitisation :**

Contains at least one sensitising substance. May cause an allergic reaction.

Small quantities of hydrogen sulphide (H₂S) can be liberated on heating which might exceed exposure limits. For this reason boiler and tank vapour spaces should be regarded as hazardous.

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SECTION 12 : ECOLOGICAL INFORMATION

Harmful to aquatic life with long lasting effects.

The product must not be allowed to run into drains or waterways.

12.1. Toxicity**12.1.2. Mixtures**

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

No data available.

SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Do not pour into drains or waterways.

Waste :

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging :

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

SECTION 14 : TRANSPORT INFORMATION

Not classified as hazardous for carriage unless heated above 100°C when the following information applies:

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2017 - IMDG 2016 - ICAO/IATA 2017).

14.1. UN number

3257

14.2. UN proper shipping name

UN3257=ELEVATED TEMPERATURE LIQUID, N.O.S., at or above 100 °C and below its flash- point (including molten metals, molten salts, etc.), filled at or below 190 °C

(fatty acids c18 unsat, reaction products with pentaethylenehexamine)

14.3. Transport hazard class(es)

- Classification :



9

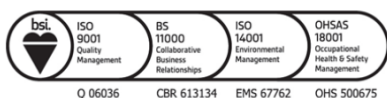
14.4. Packing group

III

14.5. Environmental hazards

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14.6. Special precautions for user

| ADR/RID | Class | Code | Pack gr. | Label | Ident. | LQ | Provis. | EQ | Cat. | Tunnel |
|---------|-------|------|----------|-------|--------|----|-------------|----|------|--------|
| | 9 | M9 | III | 9 | 99 | 0 | 274 643 668 | E0 | 3 | D |

| IMDG | Class | 2°Label | Pack gr. | LQ | EMS | Provis. | EQ |
|------|-------|---------|----------|----|---------|---------|----|
| | 9 | - | III | 0 | F-A,S-P | 232 274 | E0 |

| IATA | Class | 2°Label | Pack gr. | Passager | Passager | Cargo | Cargo | note | EQ |
|------|-------|---------|----------|-----------|-----------|-----------|-----------|------|----|
| | 9 | - | - | Forbidden | Forbidden | Forbidden | Forbidden | - | E0 |
| | 9 | - | - | Forbidden | Forbidden | - | - | - | E0 |

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

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

No data available.

SECTION 15 : REGULATORY INFORMATION**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****- Classification and labelling information included in section 2:**

The following regulations have been used:

- Container information:

No data available.

- Particular provisions :

No data available.

15.2. Chemical safety assessment

No data available.

SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

Wording of the phrases mentioned in section 3 :

| | |
|------|---|
| H314 | Causes severe skin burns and eye damage. |
| H317 | May cause an allergic skin reaction. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |

Abbreviations :

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

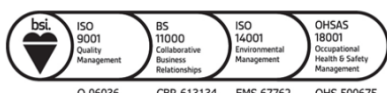
PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.

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