



SAFETY DATA SHEET

BLACKFAST 183 ANTIQUING BRASS SOLUTION

Page: 1

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Revision No: 11

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

1.1. Product identifier

Product name: BLACKFAST 183 ANTIQUING BRASS SOLUTION

Product code: 183

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

Use of substance / mixture: In use this product should be diluted to 20 or 50% with water PC14: Metal surface treatment products, including galvanic and electroplating products. PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities PROC13: Treatment of articles by dipping and pouring PROC19: Hand-mixing with intimate contact and only PPE available ERC5: Industrial use resulting in inclusion into or onto a matrix

1.3. Details of the supplier of the safety data sheet

Company name: Blackfast Chemicals Ltd.

Unit 5 Russell House

Molesey Road

Walton-on-Thames

Surrey

KT12 3PE

UK

Tel: +44 (0)208 339 7370

Fax: +44 (0)208 339 7371

Email: sales@blackfast.com

1.4. Emergency telephone number

Emergency tel: +44(0)1865 407333

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Carc. 2: H351; Skin Corr. 1B: H314; Met. Corr. 1: H290

Most important adverse effects: Harmful if swallowed. Causes severe skin burns and eye damage. Suspected of causing cancer (Route of exposure: Oral). Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. May be corrosive to metals.

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SAFETY DATA SHEET

BLACKFAST 183 ANTIQUING BRASS SOLUTION

Page: 2

2.2. Label elements

Label elements:

Hazard statements: H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H351: Suspected of causing cancer (Route of exposure: Oral).
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.
H290: May be corrosive to metals.

Hazard pictograms: GHS05: Corrosion
GHS07: Exclamation mark
GHS08: Health hazard
GHS09: Environmental



Signal words: Danger

Precautionary statements: P201: Obtain special instructions before use.
P260: Do not breathe dust/mist/spray.
P264: Wash hands thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312: IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing.
Rinse skin with water .
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.
P308+P313: IF exposed or concerned: Get medical advice/attention.
P310: Immediately call a POISON CENTER or doctor.
P321: Specific treatment (see supplemental first aid instruction on this label)
P330: Rinse mouth.
P363: Wash contaminated clothing before reuse.
P391: Collect spillage.
P501: Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

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SAFETY DATA SHEET

BLACKFAST 183 ANTIQUING BRASS SOLUTION

Page: 3

2.3. Other hazards

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

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

COPPER SULPHATE - REACH registered number(s): 01-2119520556-40-XXXX

| EINECS | CAS | PBT / WEL | CLP Classification | Percent |
|-----------|-----------|-----------|---|---------|
| 231-847-6 | 7758-98-7 | - | Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Irrit. 2: H315; Aquatic Chronic 1: H410; Aquatic Acute 1: H400 | 10-20% |

ORTHOPHOSPHORIC ACID - REACH registered number(s): 01-2119485924-24-XXXX

| | | | | |
|-----------|-----------|---|---------------------|-------|
| 231-633-2 | 7664-38-2 | - | Skin Corr. 1B: H314 | 5-10% |
|-----------|-----------|---|---------------------|-------|

ZINC SULPHATE - REACH registered number(s): 01-2119474684-27-XXXX

| | | | | |
|-----------|-----------|---|--|-------|
| 231-793-3 | 7733-02-0 | - | Acute Tox. 4: H302; Eye Dam. 1: H318; Aquatic Chronic 1: H410; Aquatic Acute 1: H400 | 5-10% |
|-----------|-----------|---|--|-------|

SELENIUM DIOXIDE - REACH registered number(s): 01-2120089867-33-XXXX

| | | | | |
|-----------|-----------|---|--|-----|
| 231-194-7 | 7446-08-4 | - | Acute Tox. 3: H301+H331; STOT RE 2: H373; Aquatic Acute 1: H400; Aquatic Chronic 1: H410 | <5% |
|-----------|-----------|---|--|-----|

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water.

Eye contact: Bathe the eye with running water for 15 minutes.

Ingestion: Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Transfer to hospital as soon as possible.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

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

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: There may be soreness and redness of the mouth and throat. There may be difficulty swallowing. Nausea and stomach pain may occur. There may be vomiting.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Delayed / immediate effects: No data available.

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SAFETY DATA SHEET

BLACKFAST 183 ANTIQUING BRASS SOLUTION

Page: 4

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

Immediate / special treatment: Not applicable.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: 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: Refer to section 8 of SDS for personal protection details. 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.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

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.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid the formation or spread of mists in the air. Avoid direct contact with the substance.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.

Suitable packaging: Polyethylene.

7.3. Specific end use(s)

Specific end use(s): PC14: Metal surface treatment products, including galvanic and electroplating products.

Section 8: Exposure controls/personal protection

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SAFETY DATA SHEET

BLACKFAST 183 ANTIQUING BRASS SOLUTION

Page: 5

8.1. Control parameters

Hazardous ingredients:

COPPER SULPHATE

Workplace exposure limits:

Respirable dust

| State | 8 hour TWA | 15 min. STEL | 8 hour TWA | 15 min. STEL |
|-------|------------|--------------|------------|--------------|
| UK | - | 2mg/m3 | 0.2mg/m3 | - |

ORTHOPHOSPHORIC ACID...100%

| | | | | |
|----|---|---|---|---|
| UK | 1 | 2 | - | - |
|----|---|---|---|---|

SELENIUM DIOXIDE

| | | | | |
|----|----------|---|---|---|
| UK | 0.1mg/m3 | - | - | - |
|----|----------|---|---|---|

DNEL/PNEC Values

Hazardous ingredients:

ORTHOPHOSPHORIC ACID...100%

| Type | Exposure | Value | Population | Effect |
|------|------------|--------|------------|--------|
| DNEL | Inhalation | 1mg/m3 | - | Local |

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

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

Hand protection: 0,5 mm Rubber gloves. Butyl gloves. PVC gloves. 0,35 mm Nitrile gloves. Breakthrough time of the glove material > 8 hours.

Eye protection: Safety goggles. Ensure eye bath is to hand.

Skin protection: PVC apron covering the tops of the boots. Boots.

Environmental: Refer to specific Member State legislation for requirements under Community environmental legislation. Prevent from entering in public sewers or the immediate environment.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Blue

Odour: Barely perceptible odour

Evaporation rate: No data available.

Oxidising: No data available.

Solubility in water: Soluble

Viscosity: No data available.

Boiling point/range°C: No data available.

Melting point/range°C: No data available.

Flammability limits %: lower: No data available.

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SAFETY DATA SHEET

BLACKFAST 183 ANTIQUING BRASS SOLUTION

Page: 6

Flash point°C: No data available. **upper:** No data available.
Autoflammability°C: No data available. **Part.coeff. n-octanol/water:** No data available.
Relative density: 1.22 **Vapour pressure:** No data available.
VOC g/l: Not applicable. **pH:** 1.25

9.2. Other information

Other information: No data available.

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.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.
Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Heat.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

COPPER SULPHATE

| | | | | |
|------|-----|------|-----|-------|
| ORAL | HMN | LDLO | 11 | mg/kg |
| ORAL | RAT | LD50 | 482 | mg/kg |

ORTHOPHOSPHORIC ACID...100%

| | | | | |
|--------|-----|------|------|-------|
| DERMAL | RBT | LD50 | 2470 | mg/kg |
| ORL | RAT | LD50 | 1530 | mg/kg |

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SAFETY DATA SHEET

BLACKFAST 183 ANTIQUING BRASS SOLUTION

Page: 7

ZINC SULPHATE

| | | | | |
|-----|-----|------|-------|-------|
| IVN | RAT | LD50 | 69900 | µg/kg |
| ORL | MUS | LD50 | 245 | mg/kg |
| ORL | RAT | LD50 | 1710 | mg/kg |

SELENIUM DIOXIDE

| | | | | |
|------|-----|------|------|-------|
| ORAL | RAT | LD50 | 68.1 | mg/kg |
|------|-----|------|------|-------|

Relevant hazards for product:

| Hazard | Route | Basis |
|-------------------------------|-------|-----------------------|
| Acute toxicity (ac. tox. 4) | ING | Hazardous: calculated |
| Skin corrosion/irritation | DRM | Hazardous: calculated |
| Serious eye damage/irritation | OPT | Hazardous: calculated |
| Carcinogenicity | -- | Hazardous: calculated |

Symptoms / routes of exposure

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: There may be soreness and redness of the mouth and throat. There may be difficulty swallowing. Nausea and stomach pain may occur. There may be vomiting.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Delayed / immediate effects: No data available.

Section 12: Ecological information

12.1. Toxicity

Hazardous ingredients:

COPPER SULPHATE

| | | | |
|---------------|----------|------|------|
| ALGAE | 48H EC50 | 0.1 | mg/l |
| Daphnia magna | 48H EC50 | 2.44 | mg/l |
| Daphnia magna | 96H LC50 | 0.1 | mg/l |
| FISH | 96H LC50 | 810 | µg/l |

SELENIUM DIOXIDE

| | | | |
|---------|-----------|------|------|
| ALGAE | 72H ErC50 | 0.9 | mg/l |
| DAPHNIA | 48H EC50 | 4.8 | mg/l |
| FISH | 96H LC50 | 7.46 | mg/l |

12.2. Persistence and degradability

Persistence and degradability: Biodegradable.

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SAFETY DATA SHEET

BLACKFAST 183 ANTIQUING BRASS SOLUTION

Page: 8

12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil

Mobility: Readily absorbed into soil.

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: Negligible ecotoxicity.

Section 13: Disposal considerations

13.1. Waste treatment methods

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

Waste code number: 11 01 98

Disposal of packaging: Arrange for collection by specialised disposal company.

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: UN3264

14.2. UN proper shipping name

Shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
(ORTHOPHOSPHORIC ACID <13%)

14.3. Transport hazard class(es)

Transport class: 8

14.4. Packing group

Packing group: III

14.5. Environmental hazards

Environmentally hazardous: Yes

Marine pollutant: No

14.6. Special precautions for user

Special precautions: No special precautions.

Tunnel code: E

Transport category: 3

IMDG seg. group: ACIDS

[cont...]

SAFETY DATA SHEET

BLACKFAST 183 ANTIQUING BRASS SOLUTION

Page: 9

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

Phrases used in s.2 and s.3: H290: May be corrosive to metals.

H301+H331: Toxic if swallowed or if inhaled

H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H319: Causes serious eye irritation.

H351: Suspected of causing cancer ({{{0}}|message=<state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>||filter=(_)?EXP_ROUTE_+}}}).

H373: May cause damage to organs ({{{0}}|message=<or state all organs affected, if known>||filter=(_)?ORGAN_+}}}) through prolonged or repeated exposure ({{{1}}|message=<state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>||filter=(_)?EXP_ROUTE_+}}}).

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

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.