



SAFETY DATA SHEET
BLACKFAST 184 BLACK PATINA

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Issued: 04/08/2008
Revision No: 1

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product name: BLACKFAST 184 BLACK PATINA

Product code: 184

Use of substance / preparation: Chemical preparation for the colouring of copper and copper alloys

Company name: Blackfast Chemicals Limited

78 Coombe Road

New Malden

Surrey

KT3 4QS

United Kingdom

Tel: +44 (0) 20 8336 2900

Fax: +44 (0) 20 8336 0909

Emergency tel: +44 (0) 7985 975545

Email: sales@blackfast.com

2. HAZARDS IDENTIFICATION

Main hazards: Harmful by inhalation and if swallowed. Danger of cumulative effects. Causes burns.

Workplace exposure limit: This substance does not have a workplace exposure limit.

PBT: This substance is not identified as a PBT substance.

Directive 1999/45/EC: This preparation meets the criteria for classification as dangerous in accordance with Directive 1999/45/EC.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients: SELENIUM 1-10%

EINECS: 231-957-4 CAS: 7782-49-2

[T] R23/25; [Xn] R33; [-] R53

- NITRIC ACID 1-10%

EINECS: 231-714-2 CAS: 7697-37-2

[O] R8; [C] R35

4. FIRST AID MEASURES

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin.

Eye contact: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

Ingestion: Wash out mouth with water. If conscious, give half a litre of water to drink immediately.

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

5. FIRE-FIGHTING MEASURES

Extinguishing media: Water spray. Water fog.

Protection of fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Refer to section 8 of SDS for personal protection details.

Environmental precautions: Contain the spillage using bunding.

Clean-up procedures: Absorb into dry earth or sand. Wash the spillage site with large amounts of water. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

7. HANDLING AND STORAGE

Handling requirements: Ensure there is sufficient ventilation of the area.

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

Suitable packaging: Must only be kept in original packaging.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Hazardous ingredients: SELENIUM
UK - 8 hour TWA: 0.1 mg/m³

- NITRIC ACID...100%
UK - 15 min. STEL: 2.6 mg/m³

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

Respiratory protection: Respiratory protection not required.

Hand protection: PVC gloves.

Eye protection: Safety goggles.

Skin protection: Plastic apron.

9. PHYSICAL AND CHEMICAL PROPERTIES

State: Liquid

Colour: Colourless

Odour: Perceptible odour

Solubility in water: Soluble

Relative density: 1.08

pH: 1

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Conditions to avoid: Heat. Sources of ignition.

Materials to avoid: Reducing agents. Alcohols.

Haz. decomp. products: In combustion emits toxic fumes of carbon dioxide.

11. TOXICOLOGICAL INFORMATION

Acute effects: Harmful by inhalation and if swallowed. Causes burns.

Repeated dose toxicity: Danger of cumulative effects.

11. TOXICOLOGICAL INFORMATION (SYMPTOMS)

Skin contact: Severe burns may occur.

Eye contact: There may be irritation and redness.

Ingestion: There may be vomiting and diarrhoea.

Inhalation: Exposure may cause coughing or wheezing. Onset of symptoms may be delayed by a few hours.

12. ECOLOGICAL INFORMATION

Mobility: Soluble in water.

Persistence and degradability: Not biodegradable.

Bioaccumulative potential: No data available.

Other adverse effects: Toxic to aquatic organisms.

PBT identification: This substance is not identified as a PBT substance.

13. DISPOSAL CONSIDERATIONS

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.

14. TRANSPORT INFORMATION**ADR / RID**

UN no: 1760

ADR Class: 8

Packing group: III

Classification code: C9

Shipping name: CORROSIVE LIQUID, N.O.S.

Labelling: 8

Hazard ID no: 80



IMDG / IMO

UN no: 1760 **Class:** 8
Packing group: III **EmS:** F-A,S-B
Marine pollutant: . **Labelling:** 8

IATA / ICAO

UN no: 1760 **Class:** 8
Packing group: III **Packing instructions:** 818(P&CA); 820(CAO)
Labelling: 8

15. REGULATORY INFORMATION

Hazard symbols: Corrosive.



Risk phrases: R20/22: Harmful by inhalation and if swallowed.

R33: Danger of cumulative effects.

R34: Causes burns.

Safety phrases: S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.

S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Haz. ingredients (label): Contains <10% Selenium and Nitric Acid

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Other information: This safety data sheet is prepared in accordance with Regulation (EC) No 1907/2006.

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

Risk phrases used in s.3: R23/25: Toxic by inhalation and if swallowed.

R33: Danger of cumulative effects.

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R53: May cause long-term adverse effects in the aquatic environment.

R8: Contact with combustible material may cause fire.

R35: Causes severe burns.

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.