



SAFETY DATA SHEET
BLACKFAST 481 ALUMINIUM BLACKING SOLUTION

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Revision No: 1

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

Product name: BLACKFAST 481 ALUMINIUM BLACKING SOLUTION

Product code: 481

Use of substance / preparation: Chemical preparation for blacking of aluminium

Company name: Blackfast Chemicals Limited

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2. HAZARDS IDENTIFICATION

Main hazards: Harmful by inhalation and if swallowed. Danger of cumulative effects. Causes burns. Limited evidence of a carcinogenic effect. May cause sensitisation by inhalation and skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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: POTASSIUM BIFLUORIDE 1-10%
EINECS: 232-156-2 CAS: 7789-29-9
[T] R25; [C] R34

- SELENIUM 1-10%
EINECS: 231-957-4 CAS: 7782-49-2
[T] R23/25; [Xn] R33; [-] R53

- NICKEL SULPHATE 1-10%
EINECS: 232-104-9 CAS: 7786-81-4
[Xn] R22; [Xn] R40; [Sens.] R42/43; [N] R50/53

- COPPER SULPHATE 1-10%
EINECS: 231-847-6 CAS: 7758-98-7
[Xn] R22; [Xi] R36/38; [N] R50/53

[cont...]

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. Consult a doctor.
- 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. Transfer to hospital as soon as possible.
- Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

5. FIRE-FIGHTING MEASURES

- Extinguishing media:** Water spray. Alcohol resistant foam. Dry chemical powder.
- Exposure hazards:** In combustion emits toxic fumes.
- 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:** Do not discharge into drains or rivers.
- Clean-up procedures:** Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Wash the spillage site with large amounts of water.

7. HANDLING AND STORAGE

- Handling requirements:** Ensure there is exhaust ventilation of the area.
- Storage conditions:** Keep container tightly closed. Keep away from direct sunlight. Store in cool, well ventilated area.
- Suitable packaging:** Must only be kept in original packaging.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Hazardous ingredients:** POTASSIUM BIFLUORIDE
UK - 8 hour TWA: 2.5 mg/m³
- SELENIUM
UK - 8 hour TWA: 0.1 mg/m³
 - COPPER SULPHATE
UK - 8 hour TWA: 1 mg/m³
UK - 15 min. STEL: 2 mg/m³

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

Respiratory protection: Respiratory protection not required.

Hand protection: PVC gloves.

Eye protection: Safety goggles.

Skin protection: Protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

State: Liquid

Colour: Green-blue

Odour: Perceptible odour

Solubility in water: Soluble

Relative density: 1.124

pH: 3.5

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Conditions to avoid: Heat. Sources of ignition. Direct sunlight.

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

11. TOXICOLOGICAL INFORMATION

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

Sensitisation: May cause sensitisation by inhalation and skin contact.

Repeated dose toxicity: Danger of cumulative effects.

CMR effects: Limited evidence of a carcinogenic effect.

11. TOXICOLOGICAL INFORMATION (SYMPTOMS)

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

Eye contact: There may be irritation and redness.

Ingestion: There may be vomiting and diarrhoea.

Inhalation: There may be coughing and a sore throat.

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.

Dangerous for the environment.

**Risk phrases:** R20/22: Harmful by inhalation and if swallowed.
R33: Danger of cumulative effects.
R34: Causes burns.
R40: Limited evidence of a carcinogenic effect.
R42/43: May cause sensitisation by inhalation and skin contact.
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases: S23: Do not breathe fumes.
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).
S61: Avoid release to the environment. Refer to special instructions / safety data sheets.
S63: In case of accident by inhalation, remove casualty to fresh air and keep at rest.

Haz. ingredients (label): Contains <5% Potassium Bifluoride, Selenium, Nickel Sulphate and Copper Sulphate

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: R25: Toxic if swallowed.
R34: Causes burns.
R23/25: Toxic by inhalation and if swallowed.
R33: Danger of cumulative effects.
R53: May cause long-term adverse effects in the aquatic environment.
R22: Harmful if swallowed.
R40: Limited evidence of a carcinogenic effect.
R42/43: May cause sensitisation by inhalation and skin contact.
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R36/38: Irritating to eyes and skin.

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.