

MATERIAL SAFETY DATA SHEET

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SECTION 1 – PRODUCT INFORMATION

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| Blackfast Chemicals Ltd. <i>Manufacturers name</i> | ++44(0)20 8339 7370 <i>Telephone number</i> |
| Unit B, 121 Roebuck Road, Chessington, Surrey, UK, KT9 1EU <i>Manufacturers Address</i> | |
| <i>Product identification</i> : BLACKFAST 181 BLACKING AGENT | <i>Product ID #</i> 181-25L, 181-4PK, 181-5L, 181-25LU, 181-4PKU, 181-5LU |
| <i>Product use</i> : Blacking of iron and steel | <i>Size</i> : 25 litre, 4 pack, 5 litre |
| <i>Suppliers name</i> : e-Black Solutions | <i>Emergency #</i> : 1-866-878-8886 |
| <i>Address</i> : 97 Wilkes Street, Brantford, Ontario, Canada N3T 4W2 | |

SECTION 2 – HAZARDOUS INGREDIENTS

| HAZARDOUS INGREDIENTS | % | CAS NUMBER | LD50 OF INGREDIENT |
|-------------------------|-----|------------|--|
| Selenium Compound as Se | <1% | 7446-08-4 | Oral Rat 1-15 mg/kg Oral Rabbit 4 mg/kg |
| Copper Compound as Cu | <1% | 7440-50-8 | Oral Rat 750 mg/kg |
| Nickel Compound as Ni | <1% | 7786-81-4 | Oral Rat 500 mg/kg Oral Mice 21 mg/kg |

This product contains no other hazardous ingredients

SECTION 3 – PHYSICAL DATA

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| Liquid <i>Physical state</i> | Odourless Blue Liquid <i>Colour and appearance</i> | | NA <i>Odour threshold</i> | |
| NA <i>Vapor pressure</i> | NA <i>Vapor density</i> | NA <i>Evaporation rate</i> | 100° C <i>Boiling point</i> | 0° C <i>Freezing Point</i> |
| 3.5 - 4 <i>pH</i> | 1.18 @ 20°C <i>Specific Gravity</i> | | Complete <i>Solubility/ Miscibility in water</i> | |

SECTION 4 – FIRE OR EXPLOSION HAZARD


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| <i>Conditions of Flammability</i> : Not Flammable, Will not support combustion | | |
| <i>Means of extinction</i> : NA | | |
| NA <i>Flash point and method</i> | NA <i>Upper flammable limit</i> | NA <i>Lower flammable limit</i> |
| NA <i>Auto-ignition temperature</i> | NA <i>Hazardous combustion products</i> | |
| <i>Explosion Data</i> : | NO <i>Sensitivity to mechanical impact</i> | NO <i>Sensitivity to static discharge</i> |

SECTION 5 – REACTIVITY DATA

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| <i>Chemical stability</i> : Solution is stable under normal conditions. |
| <i>Incompatibility with other substances</i> : NE |
| <i>Reactivity and under what conditions?:</i> Avoid temperatures above 40°C and below 5°C. Irritant gases may be released above 50°C. Avoid sources of ignition. |
| <i>Hazardous decomposition products</i> : Oxides of Carbon, Phosphorus, Selenium, Chlorine and Chlorine Oxides. |

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| SECTION 6 – HEALTH HAZARD DATA (TOXICOLOGICAL PROPERTIES) | | | |
|---|------------------------------------|---------------------------------------|-----------------------------------|
| <i>Route of entry:</i> Skin contact, eyes contact, inhalation and ingestion. | | | |
| <i>Effects of acute exposure to the product:</i> NE | | | |
| <i>Effect of chronic exposure to product:</i> NE | | | |
| Nickel Compound 8 hr TWA 0.1 mg/m ³ Selenium Compound 8 hr TWA 0.1 mg/m ³ Copper Compound 8 hr TWA 0.1 mg/m ³ OSHA (PELs) Exposure limits | NE <i>Irritancy of product</i> | NE <i>Sensitization to product</i> | NE <i>Carcinogenicity</i> |
| NE <i>Teratogenicity</i> | NE <i>Reproductive toxicity</i> | NE <i>Mutagenicity</i> | NE <i>Synergistic products</i> |

| SECTION 7 – PREVENTIVE MEASURES | | |
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| Personal protective equipment: | | |
| PVC GLOVES <i>Gloves (specify)</i> | NA <i>Respirator (specify)</i> | SAFETY GOGGLES <i>Eyes (specify)</i> |
| NA <i>Footwear (specify)</i> | RUBBER APRON <i>Clothing (specify)</i> | Other (specify) |
| <i>Engineering controls (specify: ex. ventilation, enclosed process, etc.)</i> Local exhaust ventilation is recommended when in continuous use. | | |
| <i>Leak and spill procedure:</i> Absorb liquid in absorbent clay granules. | | |
| <i>Waste disposal:</i> According to government regulations. | | |
| <i>Handling procedures end equipment:</i> Avoid inhaling the vapor. Avoid contact with skin and eyes. When using, do not eat, drink or smoke. | | |
| <i>Storage requirements:</i> Store in clean, dry conditions. Keep container closed and ensure label intact and legible. Prevent from freezing. Cover when not in use. | | |
| <i>Shipping information:</i> No special precautions are necessary. | | |
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| WHMIS CLASSIFICATION: WARNING | | |

| SECTION 8 – FIRST AID MEASURES |
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| <i>Specific measures:</i> |
| SKIN: Remove contaminated clothing and wash skin with plenty of water. Seek medical aid. |
| EYES: Flush with clean water immediately for 10 minutes. Seek medical aid. |
| INHILATION: Harmful. Remove to fresh air. Seek medical aid. |
| INGESTION: Harmful. Gargle, rinse mouth and drink plenty of water. Do not induce vomiting. Seek medical aid. |

| SECTION 9 – PREPARATION INFORMATION |
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| e-Black Solutions Tel: 1-866-878-8886 April 2024, replaces all previous issues |

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| NOTE: | NA: Not Applicable | NE: Not Established |
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