MATERIAL SAFETY DATA SHEET

SECTION 1 – PRODUCT INFORMATION

Blackfast Chemicals Ltd. *Manufacturers name*	**++44(0)20 8339 7370** *Telephone number*
Unit #5, Russell House, Molesey Road, Walton-on-Thames, Surrey, United Kingdom KT12 3PE *Manufacturers Address*	
Product identification : **BLACKFAST 181 BLACKING AGENT**	*Product ID #* 181-25L, 181-4PK, 181-5L, 181-25LU, 181-4PKU, 181-5LU
Product use: **Blacking of iron and steel**	*Size:* 25 litre, 4 pack, 5 litre
Suppliers name: **e-Black Solutions**	*Emergency #:* **1-866-878-8886**
Address: **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

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

SECTION 4 – FIRE OR EXPLOSION HAZARD

Conditions of Flammability: **Not Flammable, Will not support combustion**

Means of extinction: **NA**

NA *Flash point and method*	**NA** *Upper flammable limit*	**NA** *Lower flammable limit*
NA *Auto-ignition temperature*	**NA** *Hazardous combustion products*	
Explosion Data:	**NO** *Sensitivity to mechanical impact*	**NO** *Sensitivity to static discharge*

SECTION 5 – REACTIVITY DATA

Chemical stability: **Solution is stable under normal conditions.**

Incompatibility with other substances: **NE**

Reactivity and under what conditions?: **Avoid temperatures above 40^{0}C and below 5^{0}C. Irritant gases may be released above 50^{0}C. Avoid sources of ignition.**

Hazardous decomposition products: **Oxides of Carbon, Phosphorus, Selenium, Chlorine and Chlorine Oxides.**

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SECTION 6 – HEALTH HAZARD DATA (TOXICOLOGICAL PROPERTIES)

Route of entry: **Skin contact, eyes contact, inhalation and ingestion.**

Effects of acute exposure to the product: **NE**

Effect of chronic exposure to product: **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** *Irritancy of product*	**NE** *Sensitization to product*	**NE** *Carcinogenicity*

NE *Teratogenicity*	**NE** *Reproductive toxicity*	**NE** *Mutagenicity*	**NE** *Synergistic products*

SECTION 7 – PREVENTIVE MEASURES

Personal protective equipment:

PVC GLOVES *Gloves (specify)*	**NA** *Respirator (specify)*	**SAFETY GOGGLES** *Eyes (specify)*
NA *Footwear (specify)*	**RUBBER APRON** *Clothing (specify)*	*Other (specify)*

Engineering controls (specify: ex. ventilation, enclosed process, etc.)
Local exhaust ventilation is recommended when in continuous use.

Leak and spill procedure: **Absorb liquid in absorbent clay granules.**

Waste disposal: **According to government regulations.**

Handling procedures end equipment: **Avoid inhaling the vapor. Avoid contact with skin and eyes. When using, do not eat, drink or smoke.**

Storage requirements: **Store in clean, dry conditions. Keep container closed and ensure label intact and legible. Prevent from freezing. Cover when not in use.**

Shipping information: **No special precautions are necessary.**

WHMIS CLASSIFICATION: N/A (Not Controlled)

SECTION 8 – FIRST AID MEASURES

Specific measures:

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

e-Black Solutions Tel: 1-866-878-8886 October 2022, replaces all previous issues

NOTE: NA: Not Applicable NE: Not Established

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