

# MATERIAL SAFETY DATA SHEET

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## SECTION 1 – PRODUCT INFORMATION

Blackfast Chemicals Ltd. <i>Manufacturers name</i>	++44(0)20 8339 7370 <i>Telephone number</i>
Unit #5, Russell House, Molesey Road, Walton-on-Thames, Surrey, United Kingdom KT12 3PE <i>Manufacturers Address</i>	
Product identification : <b>BLACKFAST 181 BLACKING AGENT</b>	Product ID # 181-25L, 181-4PK, 181-5L, 181-25LU, 181-4PKU, 181-5LU
Product use: <b>Blacking of iron and steel</b>	Size: 25 litre, 4 pack, 5 litre
Suppliers name: <b>e-Black Solutions</b>	Emergency #: <b>1-866-878-8886</b>
Address: <b>120 Homewood Avenue, Suite 3708, Toronto, Ontario, Canada M4Y 2J3</b>	

## 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 <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

Conditions of Flammability: <b>Not Flammable, Will not support combustion</b>		
Means of extinction: <b>NA</b>		
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>	
Explosion Data:	NO <i>Sensitivity to mechanical impact</i>	NO <i>Sensitivity to static discharge</i>

## SECTION 5 – REACTIVITY DATA

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

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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 <sup>3</sup> Selenium Compound 8 hr TWA 0.1 mg/m <sup>3</sup> Copper Compound 8 hr TWA 0.1 mg/m <sup>3</sup> 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		
<b>Personal protective equipment:</b>		
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. WHMIS CLASSIFICATION: N/A (Not Controlled)		

SECTION 8 – FIRST AID MEASURES
<i>Specific measures:</i>
<b>SKIN:</b> Remove contaminated clothing and wash skin with plenty of water. Seek medical aid.
<b>EYES:</b> Flush with clean water immediately for 10 minutes. Seek medical aid.
<b>INHILATION:</b> Harmful. Remove to fresh air. Seek medical aid.
<b>INGESTION:</b> 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      November 2016, replaces all previous issues

<b>NOTE:</b>	<b>NA: Not Applicable</b>	<b>NE: Not Established</b>
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