

MATERIAL SAFETY DATA SHEET

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SECTION 1 – PRODUCT INFORMATION

Blackfast Chemicals Ltd. <i>Manufacturers name</i>	020 - 8336 2900 <i>Telephone number</i>
78 Coombe Road, New Malden, Surrey KT3 4QS, England <i>Manufacturers Address</i>	
<i>Product identification :</i> BLACKFAST 181 BLACKING SOLUTION	<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> 120 Homewood Avenue, Suite 3708, Toronto, Ontario, Canada M4Y 2J3	

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

<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

<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)			
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 and 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 September 2010, replaces all previous issues

NOTE: NA: Not Applicable NE: Not Established
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